

MAC TOOLS



National distribution of **MAC TOOLS**
is made possible by the following
inter-related corporations:

MAC TOOLS, INC.

SABINA, OHIO

THE CLINTON TOOL CO.

SABINA, OHIO

MAC ALLIED TOOLS CORP.

TALLMADGE, OHIO



Your MAC distributor will serve you ...
MAC distributors — nation-wide

For inter-office convenience this catalog is divided into
product sections, as listed below.

Mac Tools, Inc. — Pages 2 to 21 incl.
The Clinton Tool Co. — Pages 24 to 46 incl.
Mac Allied Tools Corp. — Pages 50 to 114 incl.

Catalog No. 62

THE tools as illustrated in this catalog are sold by regular authorized "MAC DISTRIBUTORS" throughout the entire United States, serving the "PROFESSIONAL MECHANIC".

Our policy is and shall continue to be one enabling us to furnish our customers the Finest Tool made at the most reasonable price possible. Our method of selling makes possible better Service and Quality Tools by eliminating all possible overhead.

"MAC TOOLS" are sold everywhere. Look for the trade name as shown on the cover pages of this catalog.

In purchasing these tools you will insure yourself the ownership of tools of Proven

Quality, with continued unequalled service by experienced and trained representatives.

Management of THE MAC TOOL ORGANIZATION

is by men who have been in the Mechanics Hand Tools business for many, many years. They are equipped with valuable experience which assures sound judgment with regard to the tools in our line being of proper design and quality for their intended use.

We have grown rapidly due to quality of "MAC TOOLS" and service given by "OUR DISTRIBUTORS", as well as to the confidence our customers have given

our line. We thank you for this support and hope to serve you long and well.

GUARANTEE

All tools in our line are designed and manufactured to withstand requirements of the job for which they were intended.

Our tools are guaranteed to do this job. Please note certain tools shown are marked "Not Guaranteed" which is necessary because of the nature of the tool and which is customary. Every tool we sell is guaranteed against defective workmanship or material and will be replaced when proven so within these limits.

We cannot replace tools that are worn out because of use; tools made obsolete by changes in design required by new model cars; tools which have been abused or used carelessly; or tools which the mechanic has attempted to redesign.

We know the mechanic will be reasonable and fair in the matter of replacements, and so shall we.

Final judgment as to whether a tool should be replaced rests with our adjuster working through our Authorized MAC distributors. The policy as to guarantee is for your protection and will be carried out on the basis of mutual fair dealing.



REGISTERED
TRADEMARK



Screw Drivers

In the opinions of the professional mechanics throughout the nation, MAC screw drivers are the toughest and best screw drivers on the market today. They like that MAC-GRIP handle (the square handle with the notched corners) because it fits their hand better and gives them a firmer grip and greater turning power. They like the square shanked blade because it never turns in the handle and the long forged taper of the blade for it can be redressed as the occasion demands.

MAC screw drivers can be readily identified by the MAC-GRIP handle as well as the trade name MAC stamped on ferrule. Make certain that you are securing MAC drivers, THEY ARE SUPERIOR.

Tool No.	Shank Size	Blade Length	Tip Thickness	Overall Length
G1	1/8"	1"	.025"	3-1/2"
G2	1/8"	2"	.025"	4-1/2"
G4	1/8"	4"	.025"	6-1/2"
G6	1/8"	6"	.025"	8-1/2"
H1	3/16"	7/8" Stub	.035"	1-5/8"
H2	3/16"	2"	.035"	6"
H3	3/16"	3"	.035"	5"
H4	3/16"	4"	.035"	8"
H8	3/16"	8"	.035"	12"
H12	3/16"	12"	.035"	16"
I2	1/4"	1-1/2" Stub	.045"	3-3/4"
I3	1/4"	3"	.045"	8"
I4	1/4"	4"	.045"	9"
I6	1/4"	6"	.045"	11"
I10	1/4"	10"	.045"	15"
I24	1/4"	24"	.045"	29"
J2	5/16"	2-1/2" Stub	.055"	6"
J4	5/16"	4"	.055"	10"
J8	5/16"	8"	.055"	15"
J10	5/16"	10"	.055"	16"

Heavy Duty Screw Drivers With Steel Thru Handles

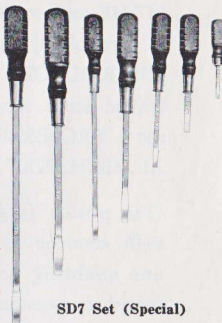


These heavy duty screw drivers with Steel-Thru-Handle were designed to meet the need for a screw driver where greater strength is required and to withstand particularly hard and rough usage. This series of heavy duty screw drivers meet all the requirements for such a driver. Furnished with the MAC-GRIP handle.

Tool No.	Shank Size	Blade Length	Tip Thickness	Overall Length
K6	3/8"	6"	.065"	13"
K12	3/8"	12"	.065"	19"
K15	3/8"	15"	.065"	22"
L45	7/16"	4"	.075"	11"
L6	7/16"	6"	.075"	13"
L10	7/16"	10"	.075"	17"
L18	7/16"	18"	.075"	25"

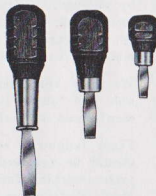
Special Screw Driver Set

This special set of MAC screw drivers is the ultimate in screw driver bargains. It is the best and most complete set ever offered at anywhere near this extremely low price. Thousands of these sets have been purchased throughout the United States each year. Mechanics have long since discovered the savings that can be made by buying their screw drivers in sets. This set is made up of seven of the most popular sizes as follows: G2, H2, H4, H8, I6, I10 and J8.



SD7 Set (Special)

Stub Screw Drivers



MAC stub screw drivers in three sizes always a very popular tool in every mechanic's tool box. They are: H1, I2, and J2.

Tool No.	Stock	Blade Length
H1	3/16"	7/8"
I2	1/4"	1-1/2"
J2	5/16"	2-1/2"

Tappet Adjusting Screw Driver



Tool No. S8

The S8 screw driver, designed for adjusting overhead valve tappets, is notched to fit the slot in the adjusting screw so that it will not slip out of place while the engine is running.

Tool No.	Blade Length	Overall Length
S8	2"	5-7/8"



Genuine Phillips Screw Drivers Super Steel Blades, Mac-Grip Handle (Not Guaranteed)



Phillips drivers are available in either the MAC-GRIP wood or plastic handles. Furnished with only the Phillips super steel blades.

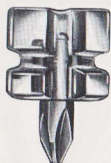
Wood Handle Tool No.	Plastic Handle Tool No.	Shank Size	Blade Length	Point Size	Overall Length
	P200	1/8"	2-1/4"	#0	5"
1201	P201	3/16"	2-1/2"	#1	6-1/4"
1211	P211	3/16"	7/8"	#1	3"
1212	P212	1/4"	1-1/4"	#2	3-3/4"
1202	P202	1/4"	3-1/2"	#2	8"
1202S	P202S	1/4"	12"	#2	16-1/2"
1203	P203	5/16"	5"	#3	10-1/2"
1204	P204	3/8"	8"	#4	14-1/2"

Phillips Screw Driver Blades (Not Guaranteed)

Blade No.	Point Size	Overall Length
1211B	#1	2-3/8"
1212B	#2	2-7/8"
1201B	#1	4-3/8"
1202B	#2	6-1/8"
1202S-B	#2	14-1/8"
1203B	#3	8-1/8"
1204B	#4	10-1/4"

Phillips Hex Inserts (Not Guaranteed)

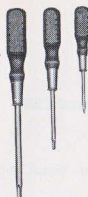
Tool No.	Point Size	Length	Stock
441	#1	1"	1/4" Hex
442	#2	1"	1/4" Hex
443	#3	1"	1/4" Hex



Phillips Stub Drivers Plastic Handle

Tool No.	Point	O. A. Length
P441	Phillips No. 1	1-1/4"
P442	Phillips No. 2	1-1/4"

Tool No. P442 is needed to take out glove compartment on Oldsmobile and Chevrolet in order to get at the radio or windshield wiper motor.



Clutch Type Screw Drivers (Figure 8)

Alloy Steel Blades, Mac Grip Handle (Not Guaranteed)

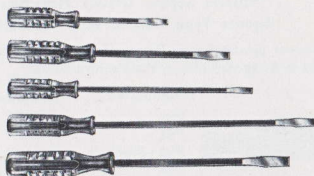
This type driver is milled straight at the point so that it can be dressed down without changing the size of the point at any time thus giving long wear.

Plastic Handle Tool No.	Wood Handle Tool No.	Shank Size	Blade Length	Point Size	Overall Length
P983	2983	1/4"	3/4"	5/32"	2-1/2"
P984	2984	1/4"	1-1/4"	3/16"	3-1/4"
P985	2985	1/4"	1-1/4"	1/4"	3-1/4"
P992	2992	3/16"	2-1/2"	1/8"	6-1/2"
P993	2993	1/4"	3-3/4"	5/32"	9"
P994	2994	1/4"	3-3/4"	3/16"	9"
P995	2995	5/16"	5-1/2"	1/4"	11-1/2"
P997	2997	3/8"	6"	5/16"	12"
P998	2998	3/8"	6"	3/8"	12"

SD5 Set of five drivers with wooden handles.

SD5P Set of five drivers with plastic handles.
(Sets include point sizes from 1/8" to 5/16" inc.)

Plastic Handle Screw Drivers Square Type Mac-Grip Handle (Patented)



Tool No.	Shank Size	Blade Length	Tool No.	Shank Size	Blade Length
PG1	1/8"	1"	PI10	1/4"	10"
PG2	1/8"	2"	PI24	1/4"	24"
PG4	1/8"	4"	PJ4	5/16"	4"
PG6	1/8"	6"	PJ8	5/16"	8"
PH1	3/16"	7/8"	PI10	5/16"	10"
PH2	3/16"	2"	PK6	3/8"	6"
PH3	3/16"	3"	PK12	3/8"	12"
PH4	3/16"	4"	PK15	3/8"	15"
PH8	3/16"	8"	PL2	7/16"	2"
PH12	3/16"	12"	PL45	7/16"	4"
PI2	1/4"	Stub 1-3/4"	PL6	7/16"	6"
PI3	1/4"	3"	PL10	7/16"	10"
PI4	1/4"	4"	PL18	7/16"	18"
PI6	1/4"	6"			

SP5—Special Set shown above of five plastic handle Screw Drivers consists of PH4, PH8, PI-6, PI-10, PJ8.



Cabinet Screw Drivers Plastic Handle



Tool No. PHR6

Screw Drivers with round blade and straight shank for carburetor work.

Tool No.	Shank Size	Blade Length
PHR4	3/16"	4"
PHR6	3/16"	6"
PHR8	3/16"	8"
PHR10	3/16"	10"

Wood Screw Driver Handles Special MAC-GRIP

This square type Mac-Grip handle is especially designed for that "Perfect Grip." All handles are made from a special wood with a grain that will not split except when they are abused. The wood is tough and strong.

Handle No.	Blade Size	Driver
S0H	1/8" Sq. Blade	G
S1H	3/16" Sq. Blade	H
S4H	1/4" Sq. Blade	I
S2H	1/4" Sq. Stub Blade	I
S5H	5/16" Sq. Blade	J
S55H	5/16" Sq. Blade, Heavy Stub	J
S81H	3/8" Sq. Blade	K
S82H	7/16" Sq. Blade	L

Plastic Screw Driver Handles Square Type Handle With Mac-Grip

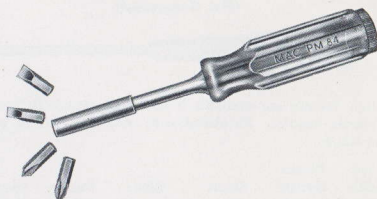
Shockproof plastic Screw Driver Handles with the Mac-Grip. Drilled to fit square bits in sizes shown below.

Handle No.	Size Blade	Driver
PS0	1/8"	G
PS1	3/16"	H
PS2 (Stub)	1/4"	I
PS4	1/4"	I
PS5	5/16"	J
PS11 (Stub)	3/16"	H
PS11S (Stub)	1/8"	Allen
PS81	3/8"	K
PS82	7/16"	L

Screw Driver Handles Phillips and Clutch Type Drivers

Wood Handle No.	Plastic Handle No.	Used with Blade No.
SS1H	PPS1	1201-2992
SS4H	PPS4	1202-2993-2994
SS5H	PPS5	1203-2995
SS55H	PS5	1204-2997-2998
	PS11A	1/4" Allen Hex
	PS2A	1212-2983-2984-2985
	PS3	1211

Magnetic Screw Driver Set



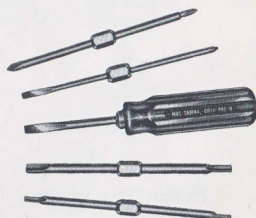
A powerful Alnico magnet holds the bit in place and will also hold the screw for easy starting. Extra bits are stored in top of plastic handle.

Tool No. PM84 — Magnetic Screw Driver Set complete with the following 1/4" hex bits.

Tool No.	Type Screw	Point	Thickness	Width
211	Slotted		.020	3/16"
213	Slotted		.035	9/32"
442	Phillips	No. 2		
441	Phillips	No. 1		

Tool No. PM114 — Magnetic Screw Driver, with overall length of 14". Furnished complete with bits as listed above.

Reversible Screw Drivers (Not Guaranteed)



Reversible screw driver blades for Phillips, clutch type and slotted screws furnished with plastic handle.

Drivers With Plastic Handle

Tool No.	Type Driver	1st End	2nd End
PRC1	Clutch	5/32"	3/16"
PRC2	Clutch	1/4"	5/16"
PP1	Phillips & Slotted	No. 1 Phil.	3/16" Reg.
PP2	Phillips & Slotted	No. 2 Phil.	1/4" Reg.
PP12	Phillips	No. 1 Phil.	No. 2 Phil.

Blades Only

PRC1-B	Blade only for PRC1
PRC2-B	Blade only for PRC2
PP1-B	Blade only for PP1
PP2-B	Blade only for PP2
PP12-B	Blade only for PP12

Driver Sets & Plastic Handle

PRCH	Plastic handle only
PRC12	PRC1 and PRC2 with plastic handle



Cold Chisels

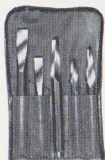
We believe that "Mac" Cold Chisels are hard to equal because of our method used in forging and tempering. Driving ends are annealed to insure them against chipping, making them safe to use. Steel used in all chisels is a special chisel steel. Can easily be "file" sharpened.



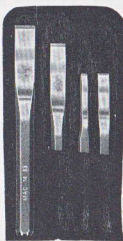
Tool No.	Edge	Length	Stock Size
M2	5/16"	4"	1/4"
M3	7/16"	5-1/2"	3/8"
M33	9/16"	6"	1/2"
M34	5/8"	8-1/2"	1/2"
M34P*	5/8"	9-3/4"	1/2"
M4	11/16"	7"	5/8"
M5	11/16"	12"	5/8"
M6	7/8"	10"	3/4"
M7	7/8"	18"	3/4"
M24	7/8"	24"	7/8"
M25	1-1/16"	7-1/2"	1"

*Plastic Handle on M34P Chisel

Cold Chisel Sets



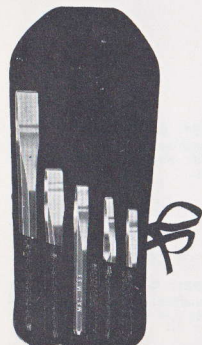
KP8 Set



KP11 Set

KP8—Set consists of two cold chisels, one diamond point and two gouge chisels, M33, M3, M11, M10 and OG4, in leatherette kit.

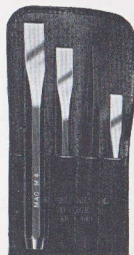
KP11—Set consists of three cold chisels and one flat cape chisel, M33, M3, M1 and M2 in leatherette kit.



KP1 Set

KP1—Set consists of four cold chisels and one flat cape chisel, M6, M4, M33, M9, and M3 in leatherette kit

KP10—Set consists of three cold chisels and one flat cape chisel, M4, M33, M9, and M3 in leatherette kit



KP10 Set

Flat Cape Chisel



Tool No.	Edge	Length	Stock Size
M1	1/8"	4"	1/4"
M9	5/16"	7"	1/2"

Diamond Point



Tool No.	Edge	Length	Stock Size
M10	3/16"	5"	3/8"
M10A	5/16"	6"	1/2"

Gouge Chisel



Tool No.	Edge	Length	Stock Size
OG4	1/8"	5-1/2"	3/8"
M11	1/4"	6"	1/2"

Muffler Chisel



M14

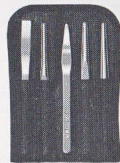


M27

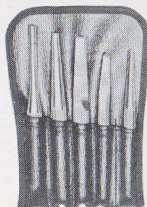
Tool No.	Edge	Length	Stock
M14	1/2"	16-1/4"	1/2"
M27	3/8"	10"	1/2"

M27—Especially designed for cutting mufflers and tail pipes.

Combination Punch And Chisel Sets



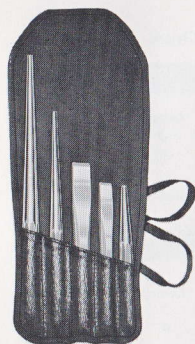
KP3 Set



KP6 Set

KP3 — Set consists of cold chisel, flat cape chisel, center punch, pin punch and drift punch, M2, P3, M1, P12 and P5, in leatherette kit.

KP6 — Set consists of one each center punch, diamond point, gouge, pin punch, solid machine punch, P10, P14, M11, M10 and P11 in leatherette kit.



KP5 Set

KP5 Set consists of two drift punches, two cold chisels and one center punch, P17, P16, M4, M33 and P19 in leatherette kit.

Punches

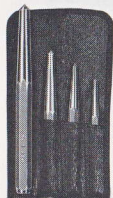
All MAC punches and drifts are HAND FORGED (Bradley Hammer) from an especially tough special analysis steel that experience has proven makes the toughest punches you can buy regardless of price.

Pin Punches Straight Shank



Tool No.	Point Size	Length	Stock Size
P1	1/16"	4"	1/4"
P2	3/32"	4"	1/4"
P3	1/8"	4"	1/4"
P4	5/32"	4"	1/4"
P6	1/8"	4-3/4"	3/8"
P7	5/32"	5-1/4"	3/8"
P8	3/16"	5-3/8"	3/8"
P9	7/32"	5-3/4"	1/2"
P10	1/4"	6"	1/2"
P10S	5/16"	6-3/4"	5/8"
P11S	3/8"	7-1/2"	5/8"

Center Punches

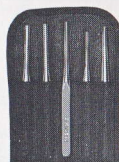


KP12 Set

Tool No.	Length	Stock Size
P11	4 1/2"	3/8"
P12	4"	1/4"
P19	6"	1/2"
P19A	6 1/2"	5/8"

KP12 Set Consists of four center punches, P11, P12, P19 and P19A, in leatherette kit.

Punch Kits



KP1 Set

KP1 Set Consists of three small pin punches, one starter punch and one center punch, P12, P2, P3, P4 and P5 in leatherette kit.



KP2 Set

KP2 Set Consists of five popular size straight pin punches, P6, P7, P8, P9 and P10, in leatherette kit.

KP22 Set Consists of seven regular straight shank pin punches, P6, P7, P8, P9, P10, P10S and P11S in leatherette kit.

Machine Punches Or Solid Punches

Machine Punches are for the hard job where a heavy driving punch is required.



Tool No.	Point Size	Length	Stock Size
P14	1/4"	6"	1/2"
P21	3/16"	6"	3/8"
P22	1/4"	7"	1/2"
P23	5/16"	8 1/2"	5/8"
P24	3/8"	10"	3/4"
P24-4	5/8"	4"	3/4"
P24-6	1/2"	6"	3/4"



KP7 Set

Machine Punch Set

KP7 Set consists of four machine punches: P21, P22, P23, and P24 in leatherette kit.

Starter Punch Set

KP33 Set of three starter punches: P24, P-24-4, and P24-6 in leatherette kit.

Drift Punches Long Taper

MAC Drift Punches are exceptionally long tapered, hammer forged from Special Alloy steel. They are an extra fine quality drift and the gradual taper makes them especially good for line-up jobs.



Drift Punches Long Taper

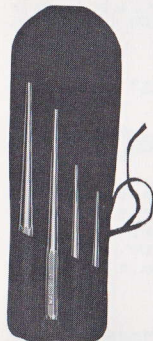
Tool No.	Point Size	Taper	Length	Stock Size
P5	1/16"	2-1/2"	4"	1/4"
P15	3/32"	3-1/2"	8"	3/8"
P16	5/32"	4-1/2"	8-1/2"	1/2"
P17	3/16"	6-1/2"	11"	5/8"
P18	1/4"	7-1/2"	13"	3/4"

EXTRA LONG TAPER

P25	3/16"	10"	13"	3/8"
P26	1/4"	11"	14-1/2"	1/2"
P27	5/16"	12"	16"	5/8"
P29	1/8"	11"	15"	5/8"
P31	3/8"	8-1/2"	18"	7/8"

KP4L Set of three extra long taper drift punches in leatherette kit consisting of P25, P26, and P27.

Drift Punch Sets



KP4 Set

DRIFT PUNCH SET

KP4—Set consists of four drift punches, P15, P16, P17 and P18, in leatherette kit.

DRIFT PUNCH SET

Extra Long Taper

KP4L—Set of three extra long taper drift punches in leatherette kit consisting of P25, P26, and P27.



KSE5 Set

Screw Extractors (Twisted Points)

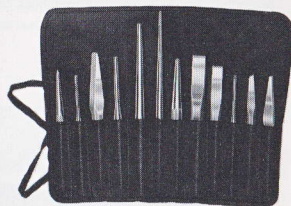
Tool No.	Stock Size	Length
E2	3/16"	3"
E3	1/4"	3-3/4"
E4	5/16"	4"
E5	3/8"	4-1/4"
E6	7/16"	5-1/4"

KSE5 SET — Complete set of five screw extractors in leatherette kit.

Master Punch and Chisel Sets

The MAC Deluxe and Master Punch and Chisel sets both consist of an assortment of punches and chisels chosen to meet the daily needs of the Auto Mechanic. Tools are of high quality and will satisfy the most particular mechanic who appreciates good tools.

The KP9 DELUXE Punch and Chisel Set contains 12 Punches and Chisels which are needed almost every working day.



KP9
Deluxe
Punch and
Chisel
Set

Tool No.	Pt. Size & Length	Description
P11	3/16"x6"	Center Punch
P6	1/8"x5-1/4"	Pin Punch
M9	1/2"x7"	Cape Chisel
P10	1/4"x6"	Pin Punch
P22	7/32"x7"	Machine Punch
P15	3/32"x8"	Drift Punch
P14	1/4"x6"	Machine Punch
M33	5/8"x6"	Cold Chisel
M3	1/2"x5-1/2"	Cold Chisel
P7	5/32"x5-3/8"	Pin Punch
M10	1/4"x5"	Diamond Point Chisel
OG4	1/8"x5-1/2"	Round Nose Cape Chisel

The MASTER Punch & Chisel Set contains a complete assortment of Punches and Chisels for both light and heavy duty work.



KP16
Master
Punch
and
Chisel
Set

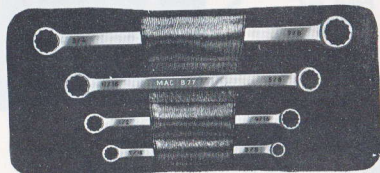
Tool No.	Pt. Size & Length	Description
P18	1/4"x13"	Drift Punch
M6	7/8"x10"	Cold Chisel
P17	3/16"x11"	Drift Punch
M4	3/4"x7"	Cold Chisel
P16	5/32"x8-1/2"	Drift Punch
M9	1/2"x7"	Cape Chisel
P10	1/4"x6"	Pin Punch
M33	5/8"x6"	Cold Chisel
P9	7/32"x5-3/4"	Pin Punch
P15	3/32"x8"	Drift Punch
M10	1/4"x5"	Diamond Point Chisel
P8	3/16"x5-5/8"	Pin Punch
M3	1/2"x5-1/2"	Cold Chisel
P7	5/32"x5-3/8"	Pin Punch
P6	1/8"x5-1/4"	Pin Punch
P11	3/16"x6"	Center Punch



Box Wrenches

The entire MAC line of BOX WRENCHES is forged from the same dependable alloy steel as used in all MAC wrenches, selected for its toughness and wearing qualities. MAC wrenches are hot broached and heat treated in their entirety to provide a long and satisfactory service.

Long Box Wrenches — 15° Offset



KB44 Set

Tool No.	Size of Openings	Length
6 Point	12 Point	
BHXL810	1/4" x 5/16"	5-1/2"
BHXL1214	3/8" x 7/16"	6"
BHXL1618	1/2" x 9/16"	8"
BHXL1820	9/16" x 5/8"	9"
BHXL2022	5/8" x 11/16"	10"
BHXL2428	3/4" x 3/4"	10"
BHXL2630	13/16" x 15/16"	14"
BHXL3234	1" x 1-1/16"	15"
BHXL3640	1-1/8" x 1-1/4"	16"

KB44 Set of four long box wrenches in leatherette kit: BHXL1214, BXL1618, BXL2022 and BXL2428

KB77 Set of seven long box wrenches in leatherette kit: BHXL1214, BXL1618, BXL2022, BXL2428, BXL2630, BXL3234 and BXL3640

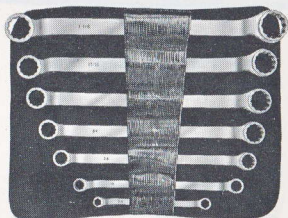
Long Offset Box Wrenches



This style offset box wrench is especially designed to give clearance. Forged from the same high quality steel as all MAC wrenches. Hot broached with six and twelve point openings as listed.

Tool No.	Size of Openings	Length
6 Point	12 Point	
BHOL1214	3/8" x 7/16"	6"
BHOL1416	7/16" x 1/2"	7"
BHOL1618	1/2" x 9/16"	8"
BHOL2022	5/8" x 11/16"	10"
BHOL2428	3/4" x 7/8"	13"
BOL2630	13/16" x 15/16"	14"
BOL3032	15/16" x 1"	14"
BOL3234	1" x 1-1/16"	15"
BOL3640	1-1/8" x 1-1/4"	16"

Offset Box Wrench Set



KB77-0 Set

KB44-0 Set of four Offset Box Wrenches in leatherette kit: BHOL1214, BOL1618, BOL2022, and BOL2428.

KB77-0 Set of seven Offset Box Wrenches in leatherette kit: BHOL1214, BOL1618, BOL2022, BOL2428, BOL2630, BOL3234, and BOL3640.

Short Box Wrenches — 15° Offset



Tool No.	Size Openings	Length
6 Point	12 Point	
BHX1214	3/8" x 7/16"	4-1/4"
BHX1618	1/2" x 9/16"	5"
BHX2024	5/8" x 3/4"	6"

KB3A Set of three short box wrenches in leatherette kit: BHX1214, BX1618 and BX2024

Short Offset Box Wrenches



Tool No.	Size Openings	Length
6 Point	12 Point	
BHO1214	3/8" x 7/16"	4-1/4"
BHO1618	1/2" x 9/16"	5"
BHO2024	5/8" x 3/4"	6"

KB3 Set of three short offset box wrenches in leatherette kit: BHO1214, BO1618 and BO2024

Metric Box Wrenches

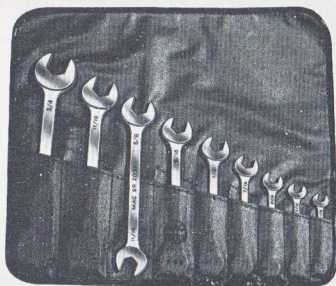
LONG — 15° OFFSET

Tool No.	Size Opening	Points	Length
M1314BXL	13 M/M x 14 M/M	6	8"



Open End Wrenches

Forged from the same high quality steel as the combination wrenches, light, strong and easy to handle.



KD-9 Set

Tool No.	Size of Opening	Length
DR810	1/4" x 5/16"	3-1/2"
DR1012	5/16" x 3/8"	4"
DR1214	3/8" x 7/16"	4-1/2"
DR1416	7/16" x 1/2"	5-1/4"
DR1618	1/2" x 9/16"	6"
DR1619	1/2" x 19/32"	6-1/2"
DR1820	9/16" x 5/8"	6-3/4"
DR2022	5/8" x 11/16"	7-1/2"
DR2024	5/8" x 3/4"	8-1/4"
DR2224	11/16" x 3/4"	8-1/4"
DR2428	3/4" x 7/8"	9-1/2"
DR2630	13/16" x 15/16"	10"
DR3032	15/16" x 1"	10-3/4"
DR3234	1" x 1-1/16"	12-1/4"
DR3640	1-1/8" x 1-1/4"	13-1/2"

Open End Wrench Sets

KD55—Set of five Open End Wrenches in leatherette kit, consisting of DR810, DR1214, DR1618, DR2022, and DR2428.

KD9—Set of nine Open End Wrenches in leatherette kit, consisting of DR810, DR1012, DR1214, DR1416, DR1618, DR1820, DR2022, DR2224 and DR2428.

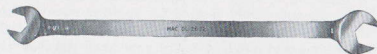
KD12—Set of twelve Open End Wrenches in leatherette kit, consisting of: DR810, DR1012, DR1214, DR1416, DR1618, DR1820, DR2022, DR2224, DR2428, DR2630, DR3234 and DR3640.

KD3L—Set of three Open End Wrenches in leatherette kit, consisting of: DR2630, DR3234 and DR3640.

KD8L—Set of eight Open End Wrenches in leatherette kit, consisting of: DR810, DR1214, DR1618, DR2022, DR2428, DR2630, DR3234, and DR3640.

Extra Long Open End Wrenches

These wrenches are designed to give extra leverage for truck, bus and tractor work. Some sizes are especially good for brake adjustment.



DL2632

Tool No.	Size Openings	Length
DL2428	3/4" x 7/8"	15"
DL2630	13/16" x 15/16"	15"
DL3234	1" x 1-1/16"	18"
DL3640	1-1/8" x 1-1/4"	20"
DL4042	1-1/4" x 1-5/16"	22"
DL4446	1-3/8" x 1-7/16"	22"
DL4852	1-1/2" x 1-5/8"	24"

Angle Wrenches

Angle Wrenches provide access to the work regardless of angle or position. Opening at one end is set at 60 degrees, while the other end is set at 15 degrees.



DA16

Tool No.	Size Opening	° Angle
DA12	3/8" x 3/8"	15°-60°
DA14	7/16" x 7/16"	15°-60°
DA16	1/2" x 1/2"	15°-60°
DA18	9/16" x 9/16"	15°-60°
DA20	5/8" x 5/8"	15°-60°
DA22	11/16" x 11/16"	15°-60°
DA24	3/4" x 3/4"	15°-60°
DA25	25/32" x 25/32"	15°-60°
DA26	13/16" x 13/16"	15°-60°
DA28	7/8" x 7/8"	15°-60°
DA30	15/16" x 15/16"	15°-60°
DA32	1" x 1"	15°-60°
DA34	1-1/16" x 1-1/16"	15°-60°
DA36	1-1/8" x 1-1/8"	15°-60°
DA40	1-1/4" x 1-1/4"	15°-60°
DA42	1-5/16" x 1-5/16"	15°-60°
DA44	1-3/8" x 1-3/8"	15°-60°
DA46	1-7/16" x 1-7/16"	15°-60°
DA48	1-1/2" x 1-1/2"	15°-60°

KAD5 Set of 5 Angle Wrenches in leatherette kit consisting of: DA12, DA14, DA16, DA18, and DA20.

KAD11 Set of 11 Angle Wrenches in leatherette kit consisting of: DA12, DA14, DA16, DA18, DA20, DA22, DA24, DA26, DA28, DA30, and DA32.

KAD14 Set of 14 Angle Wrenches in leatherette kit consisting of: DA12, DA14, DA16, DA18, DA20, DA22, DA24, DA26, DA28, DA30, DA32, DA34, DA36, and DA40.



Combination Wrenches

MAC combination wrenches have all of the features of the box wrench or the open end wrench. The box end is offset at a 15° angle for clearance and should be used for tightening the nut or breaking it loose. The open end is set at a 15° angle to the handle and should be used for speed in running the nut on or off. Forged from high grade steel, they are light in weight, strong and tough. They fit your hand and feel "right."



KC11 Set

Combination Wrenches

Tool No.	Size Opening	Length
12 Point	6 Point	
	CH8	1/4"
CW10	CH10	5/16"
CW11	CH11	11/32"
CW12	CH12	3/8"
	CH13	13/32"
CW14	CH14	7/16"
CW15		15/32"
CW16	CH16	1/2"
CW17		17/32"
CW18	CH18	9/16"
CW19		19/32"
CW20	CH20	5/8"
CW22	CH22	11/16"
CW24		3/4"
CW26	CH26	13/16"
CW28	CH28	7/8"
CW30		15/16"
CW32	1"	12"
CW34		1-1/16"
CW36		1-1/8"
CW38		1-3/16"
CW40		1-1/4"

Combination Wrench Sets 6 Point

KC5A Set of 5 combination wrenches, 6 point, in leatherette kit: CH8, CH10, CH12, CH14, and CH16.

KC5H Set of 5 combination wrenches, 6 point, in leatherette kit: CH12, CH14, CH16, CH18, and CH20.

KC8H Set of 8 combination wrenches, 6-point, in a leatherette kit as follows: CH12, CH14, CH16, CH18, CH20, CH22, CH24, and CH28.

KC11H Set of 11 combination wrenches, 6 point, in leatherette kit as follows: CH8, CH10, CH12, CH14, CH16, CH18, CH20, CH22, CH24, CH26, and CH28.

Combination Wrench Sets -12 Point

Note: (Sizes 1/4", 5/16", 3/8" and 7/8" are furnished in 6-point)

KC5 Set of 5 combination wrenches, 12-point, in a leatherette kit consisting of the following: CH12, CH14, CW16, CW18, and CW20.

KC8 Set of 8 combination wrenches, 12-point, in a leatherette kit consisting of CH12, CH14, CW16, CW18, CW20, CW22, CW24, and CW28.

KC11 Set of 11 combination wrenches, 12-point, in a leatherette kit consisting of: CH8, CH10, CH12, CH14, CW16, CW18, CW20, CW22, CW24, CW26, and CW28.

KC1P Set of 11 combination wrenches, 12-point, in a leatherette kit consisting of: CH12, CH14, CW16, CW18, CW20, CW22, CW24, CW26, CW28, CW30, and CW32.

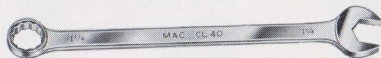
KC5L Set of 5 combination wrenches, 12-point, in a leatherette kit consisting of: CW30, CW32, CW34, CW36, and CW40.

KC16 Set of 16 combination wrenches in leatherette kit: CH8, CH10, CH12, CH14, in 6 point; CW16, CW18, CW20, CW22, CW24, CW26, CW28, CW30, CW32, CW34, CW36, and CW40 in 12 point.

KC532 Set of 5 combination wrenches in leatherette kit, furnished in 32nd sizes only: CH11, CH13, CW15, CW17, and CW19.

Combination Wrenches - Long

The MAC series of long combination wrenches are the answer for the mechanic in need of a tool for either general purpose or heavy duty work. These wrenches have the same 15° offset on either end that is furnished in the regular series of combination wrenches.



Tool No. CL40

Tool No.	Size Opening	Length
12 Point	6 Point	
CL10	CH10	5/16"
CL12	CH12	3/8"
CL14	CH14	7/16"
CL16		1/2"
CL18		9/16"
CL20		5/8"
CL22		11/16"
CL24		3/4"
CL26		13/16"
CL28		7/8"
CL30		15/16"
CL32		1"
CL34		1-1/16"
CL36		1-1/8"
CL40		1-1/4"
CL42		1-5/16"
CL44		1-3/8"
CL46		1-7/16"
CL48		1-1/2"
CL52		1-5/8"

KCL10 Set of 10 long combination wrenches in leatherette kit; CL14 to CL32 inclusive.

KCL11 Set of 11 long combination wrenches in leatherette kit: CH8, and CL10 to CL28 inclusive.

KCL16 Set of 16 long combination wrenches in leatherette kit: CH8, and CL10 to CL40 inclusive.



Offset Combination Wrenches

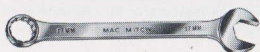
This type combination wrench has a 25 degree offset on both ends whereas the regular combination wrench has a 15 degree offset on box end only.



Tool No.	Size Opening	Length
CA12	3/8"	4 1/4"
CA14	7/16"	5"
CA16	1/2"	5 1/4"
CA18	9/16"	6 1/2"
CA20	5/8"	7 1/4"
KC5S	Set of five offset combination wrenches in leatherette kit, consisting of CA12 to CA20 inclusive.	

Metric Combination Wrenches

Metric size combination wrenches are for use on most European cars. Wrenches are forged from special alloy steel for extra strength and toughness. Available in openings from 7 to 19 millimeters in one millimeter steps.



Tool No. M17CW

Tool No.	Size Opening in Millimeters	Hex or Dbl. Hex	Length
M7CH	7 M/M	6 Point	3-3/4"
M8CH	8 M/M	6 Point	3-3/4"
M9CW	9 M/M	12 Point	4-1/4"
M10CW	10 M/M	12 Point	4-1/4"
M11CW	11 M/M	12 Point	5"
M12CW	12 M/M	12 Point	5-3/4"
M13CW	13 M/M	12 Point	5-3/4"
M14CW	14 M/M	12 Point	6-1/2"
M15CW	15 M/M	12 Point	6-1/2"
M16CW	16 M/M	12 Point	7-3/8"
M17CW	17 M/M	12 Point	7-3/4"
M18CW	18 M/M	12 Point	8"
M19CW	19 M/M	12 Point	8-3/4"

METRIC WRENCH SETS

KCM7 Set of 7 metric combination wrenches in kit; sizes M9CW, M10CW, M11CW, M12CW, M14CW, M17CW, M19CW.

KCM13 Set of 13 metric combination wrenches in kit; sizes 7 M/M to 19 M/M incl.

Metric Combination Wrenches

Flex Box — Open End

Tool No. 6 Point	Tool No. 12 Point	Size Opening Both Ends	Length
M9CHLF		9 M/M	5-1/4"
M10CHLF		10 M/M	5-3/8"
M11CHLF		11 M/M	6-1/4"
M12CHLF		12 M/M	7-1/4"
M14CHLF		14 M/M	8"
M17CHLF		17 M/M	10-1/4"

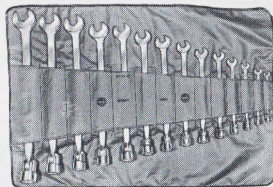
Combination Wrenches Flex Box — Open End

This special combination wrench gives you the swivel socket end for use on those hard-to-get-at places. The open end can be used for speed in running the nut on or off.



Tool No. 6 Point	Tool No. 12 Point	Size Opening Both Ends	Length
CHLF12		3/8"	5-3/8"
CHLF14		7/16"	6-1/4"
	CLF16	1/2"	7-1/4"
	CLF18	9/16"	8"
	CLF20	5/8"	9-1/4"
	CLF22	11/16"	10"
	CLF24	3/4"	11"
	CLF26	13/16"	12-1/2"
	CLF28	7/8"	13-1/2"
	CLF30	15/16"	14-1/2"
	CLF32	1"	15-1/2"
	CLF34	1-1/16"	16-1/4"
	CLF36	1-1/8"	17"
	CLF40	1-1/4"	18"

Combination Wrench Sets Flex Box — Open End



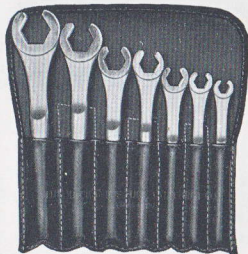
KCLF7 Set of 7 Combination Flex Box—open end wrenches in leatherette kit: CHLF12, CHLF14, CLF16, CLF18, CLF20, CLF22, and CLF24.

KCLF7B Set of 7 Combination Flex Box—open end wrenches in leatherette kit: CLF26, CLF28, CLF30, CLF32, CLF34, CLF36, and CLF40.

KCLF14 Set of 14 Combination Flex Box—open end wrenches in leatherette kit: CHLF12, CHLF14, and CLF16 to CLF40 inclusive.



Flare Nut Or Coupling Wrenches Single End (Not Guaranteed)



KOB7 Set

The Flare Nut wrench is especially designed for use over piping and tubing, where it is exceptionally useful in close places. This type of wrench does not injure the brass fittings. Mechanics who are servicing refrigeration, air conditioning will find this tool meets their needs.

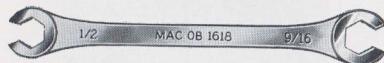
Tool No.	Size Opening	Length
OB12	3/8"	5"
OB14	7/16"	5 1/4"
OB16	1/2"	5 1/2"
OB18	9/16"	5 3/4"
OB20	5/8"	6 1/4"
OB24	3/4"	6 3/4"
OB28	7/8"	7 1/2"

KOB7—Set of 7 Flare Nut Wrenches in Kit as above.

KOB5—Set of 5 Flare Nut Wrenches in Kit, OB12 to OB20 inclusive.

KOB3—Set of 3 Flare Nut Wrenches: OB12, OB14, and OB16 in Kit.

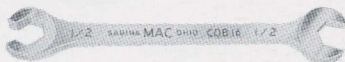
Flare Nut Wrenches Double End (Not Guaranteed)



Tool No.	Size Opening	Length
OB1214	3/8" x 7/16"	6"
OB1618	1/2" x 9/16"	7"

Combination Wrenches Flare Nut — Open End

The Combination Flare Nut Wrench has the open end box with thick wall for protection of brass fittings on tubing. Thin wall open end wrench on the other end for use in close places.



Tool No. COB16

Tool No.	Size Opening	Length
COB12	3/8" x 3/8"	5-1/4"
COB14	7/16" x 7/16"	5-5/8"
COB16	1/2" x 1/2"	6"
COB18	9/16" x 9/16"	6-3/8"
COB20	5/8" x 5/8"	7"
COB22	11/16" x 11/16"	7-1/2"

KCOB5 5 piece set of combination flare nut open end wrenches in leatherette kit, consisting of COB12 to COB20 inclusive.

Double End Tappet Wrenches

Regular style double end tappet wrenches, long design, thin heads and tough. All Mac tappet wrenches are guaranteed when used for tappet adjusting only. TR2428 wrench is specially designed for Kaiser-Fraser cars.



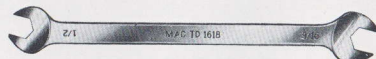
TR1618

Tool No.	Size Opening	Length
TR1416	7/16" x 1/2"	12"
TR1618	1/2" x 9/16"	12"
TR1718	17/32" x 9/16"	12"
TR2022	5/8" x 11/16"	12"
TR2428	3/4" x 7/8"	12"

KTR5 Set of 5 long tappet wrenches in a leatherette kit. TR1416 to TR2428 inclusive.

Double End Tappet Wrenches

Regular style tappet wrenches with short length, and thin heads. All MAC tappet wrenches are guaranteed when used for tappet adjusting only.

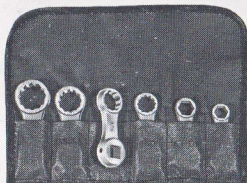


Tool No.	Size Opening	Length
TD1214 (TD4)	3/8" x 7/16"	9-1/2"
TD1617 (TD5)	1/2" x 17/32"	9-1/2"
TD1618 (TD6)	1/2" x 9/16"	9-1/2"
TD1819 (TD7)	9/16" x 19/32"	9-1/2"
TD2022 (TD8)	5/8" x 11/16"	9-1/2"
TD2428 (TD9)	3/4" x 7/8"	9-1/2"

KTD6 Set of 6 short tappet wrenches in leatherette kit.

Crowfoot Wrenches — Box Type

3/8" DRIVE — 12 POINT



KCB6 Set

The crowfoot type wrench helps the mechanic to reach those starters and other jobs which normally require special tool

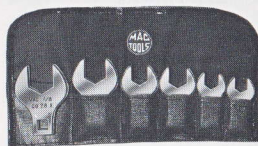
Tool No.	Size Opening	Drive
CB12	3/8"	3/8"
CB14	7/16"	3/8"
CB16	1/2"	3/8"
CB18	9/16"	3/8"
CB20	5/8"	3/8"
CB22	11/16"	3/8"
CB24	3/4"	3/8"

KCB6—Set of six Crowfoot Box Wrenches in leatherette kit: CB12, CB14, CB16, CB18, CB20, and CB24.

KCB7—Complete set of 7 Crowfoot Box Wrenches in leatherette kit: CB12 to CB24 inclusive.

Crowfoot Open End Wrenches

3/8" Drive



KCO6 Set

Tool No.	Size Opening	Drive
CO14	7/16"	3/8"
CO16	1/2"	3/8"
CO18	9/16"	3/8"
CO20	5/8"	3/8"
CO22	11/16"	3/8"
CO24	3/4"	3/8"
CO28	7/8"	3/8"

KCO6—Set of six Crowfoot Open End Wrenches in leatherette kit: CO14, CO16, CO18, CO20, CO24, and CO28.

KCO7—Complete set of Crowfoot Open End Wrenches in leatherette kit: CO14 to CO28 inclusive.

Cylinder Head Wrenches



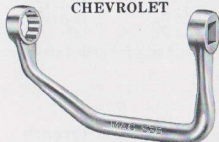
These wrenches were designed to simplify the job of removing or tightening the cylinder head stud nuts. One is broached to fit the nut while the opposite end is broached for 1/2" service. Any type standard 1/2" drive wrench handle may be used or with a tension wrench if preferred.

	Tool No.	Opening Size	Service End Size	Overall Length
Buick	S34	3/4"	1/2"	5-1/2"
Ford 1954	S73	11/16"	1/2"	6"
Ford 1954	S73L	11/16"	1/2"	8"

Note: S73 and S73L Not Guaranteed

Cylinder Head Wrench

CHEVROLET



Tool No. S35

Model	Tool No.	Opening Size	Drive	Overall Length
Prior to 1955	S35	3/4"	1/2"	5-5/8"

Cylinder Head Wrench

FORD—MODEL 1957

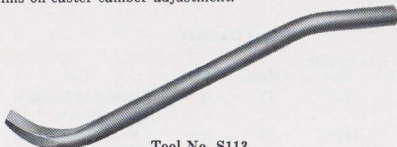


Tool No. S89—11/16" Head Bolt Wrench for 1957 Fords—8-1/2" long.

Caster Camber Tool

1960 FALCON AND COMET

Special tool designed to facilitate installation or removal of shims on caster camber adjustment.



Tool No. S113

Tool No. S113—Special Tool for Caster Camber Adjustment

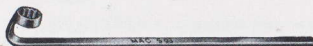
Cars
Falcon '60
Comet '60



Caster and Camber Wrenches

FORD PRODUCTS

(Not Guaranteed)



Tool No. S93



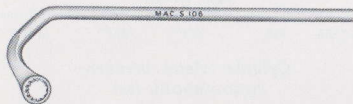
Tool No. S93A

Wrenches designed for Caster Camber adjustment on Ford, Mercury, Edsel and Lincoln cars.

Tool No.	Opening Size	Length	Model
S93	3/4" — 12 Pt.	13-1/4"	1957
S93A	3/4" — 12 Pt.	13-1/4"	1958
S93B*	3/4" — 12 Pt.	13"	1958

* Furnished in black oxide finish for added strength for use on 1958 Mercury.

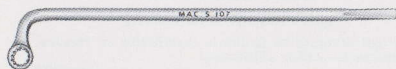
Caster & Camber Wrench



Tool No. S106

Tool No.	Opening Size	Points	Length	Car
S106	15/16"	12	12"	Nash and Rambler 1960 Models

Caster & Camber Wrench



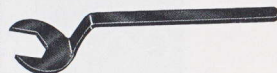
Tool No. S107

Tool No.	Opening Size	Points	Length	Car
S107	7/8"	12	20"	Buick; Oldsmobile 1960 Models
S112	15/16"	12	16"	Nash Rambler 1961 Model

Caster & Camber Wrenches

(Not Guaranteed)

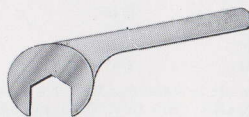
These wrenches are especially designed for caster and camber adjustments on late model cars. Adjustments are made with these tools from underneath the front end of the car.



Tool No.			Op. Size	Length
S31	Ford	Caster	1-3/16"	9"
S32	Ford	Camber	1-5/16"	9"

Caster & Camber Wrenches

(Not Guaranteed)



Tool No.		Opening Size	Length
S27	Chrysler Products	1-1/2"	8"
S28	Chrysler Products	1-7/16"	8"
S49	1951 Plymouth	1-13/32"	8"
S50	1951 Chrysler	1-5/8"	8"
S51	1951 DeSoto-Plymouth	1-5/16"	8"

Caster & Camber Wrench

CHEVROLET — MODEL 1960



Tool No. S114

Tool No.	Size Opening	No. Points Box End	Length
S114	11/16" x 11/16"	12	13-1/4"



Valve Adjusting Screw Driver



Tool No. S88

Tool No. S88—Is spring loaded to facilitate adjustment of overhead valves while motor is running.

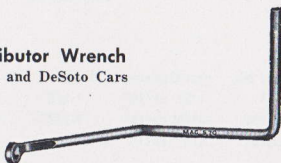
Distributor Wrenches

Special Combination Wrench for Distributors, with 25° offset each end.



Tool No.	Size Opening	Length	Car
CA16	1/2"	5-3/4"	Ford
CA18	9/16"	6-1/2"	Other Cars

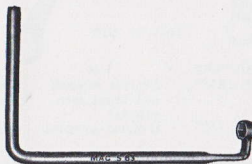
Distributor Wrench Dodge and DeSoto Cars



Tool No. S70 1/2" Distributor Wrench for use on V-8 engines on Dodge and DeSoto Cars.

Tool No. S95 1/2" Distributor Wrench 12 pt. for use on Chrysler Products.

Distributor Wrenches



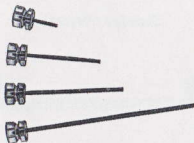
Tool No. S74—1/2" Distributor Wrench for Ford 1954.

Tool No. S79—9/16" Distributor Wrench for 1955 Pontiac, 1961 Buick Special, and 1961 Olds F-85.

Tool No. S94—1/2" Distributor Wrench for Ford 1957.

Distributor Tools

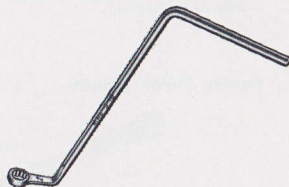
Delco



Special screw drivers with Allen 1/8" hex blade for adjusting Delco distributors. Contact point opening or dwell angle can be adjusted while engine is running.

Tool No.	Blade Length	Car
4-A-1	1"	Cadillac
4-A-3	3"	Buick & Pontiac
4-A-4	4"	Chevrolet
4-A-7	7"	Oldsmobile

Distributor Wrenches



Tool No. S105—9/16" Distributor Wrench for 1959 Buick, Chevrolet and other GMC Cars.

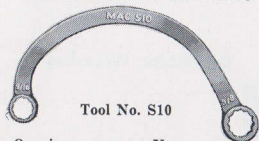
Tool No. S90 —1/2" Distributor Wrench for 1956 Plymouth, Dodge, DeSoto, and Cadillac.

Starter Wrench, 1949 Chevrolet



MAC S39

Half Moon Box Wrenches



Tool No. S10

Tool No.	Size Opening	Use	Car
S10	9/16" x 5/8"	Starter wrench and front mtr. support	Chevrolet and Chrysler
S109	7/16" x 1/2"	General purpose	All cars

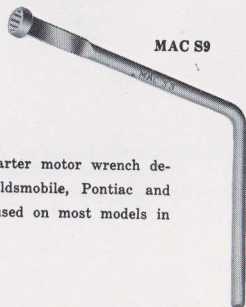
Manifold and Starter Wrench



Tool No. S4

- 5/8" Starter Wrench—Chrysler Products
- 5/8" Manifold Wrench—Mack Trucks
- 5/8" Transmission Wrench — Dodge and Desoto Fire Dome Engine

Starter Motor Wrench



MAC S9

Tool No. S9 5/8" Starter motor wrench designed to use on Oldsmobile, Pontiac and Chrysler cars. Also used on most models in other cars.

Manifold Wrenches

These wrenches are well adapted for manifold work on most cars. Also allows you to get at the nuts hard to reach with other wrenches. Tool has many uses.



Tool No. S3

Tool No.	Size Opening	Length	Car
S3	1/2" x 9/16"	7-1/2"	Most Cars
S101	9/16" x 9/16"	7-1/2"	Ford & Mercury '57
S104	5/8" x 3/4"	10"	Starter and Obstruction Wrench

Starter Wrench



Tool No. S46 5/8" Starter Wrench for Oldsmobile (Rocket)

Starter Wrench



Tool No. S116

Tool No.	Opening Size	Length	Drive
S116	5/8" — 12 pt.	9-1/2"	1/2"
USES		CAR	MODEL
Starter Wrench		Buick	1960-61
Starter Wrench		Chrysler Prod.	1960-61
Cylinder Head Wrench		Nash	1961

Fluid Drive and Fly Wheel Wrench Chrysler Cars



Tool No.	Tool No. S24	Length
S24	Size Opening 5/8"	17"

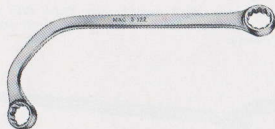
Upper Control Arm Front End



These Box Wrenches were designed for use on upper control arm and front end work on Chrysler, Ford and General Motors cars. Wrench has 6 point box on one end and 12 point box on the other end. The 12 point end has a 15° angle.

Tool No.	Sizes	Points	Length
S5916	1/2" x 1/2"	6 and 12	11"
S5918	9/16" x 9/16"	6 and 12	11"
S5920	5/8" x 5/8"	6 and 12	11"

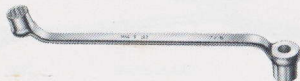
Fuel and Water Pump Wrench DIESEL ENGINES



Tool No.	Size Openings	Points	Diesel Make
S122	1/2" x 1/2"	12	General Motors

Valve Lock Nut Wrench DIESEL ENGINES

Special Wrench designed for use in adjusting valve lock nuts on Cummins Diesel Engines.



Tool No.	Size Openings	Points	Diesel Make
S123	7/8" x 15/16"	12	Cummins

Heavy Duty Box Wrenches FOR FRONT END WORK Single End Wrenches



Tool No.	Size Opening	Type	Length
S67S	3/4"	Single End-Box	19"
S77	15/16"	Single End-Box	20"
S83	7/8"	Single End-Box	22"

Single End Wrenches — Offset



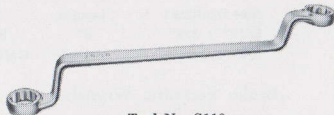
Tool No.	Size Opening	Type	Length
S67	3/4"	Single End-Box	19"
S77B	15/16"	Single End-Box	20"

SPECIAL USES:

- S67 — Steering idler arm — Chevrolet
- S67S — Steering clutch adjustment on HD-5-6-9 & 11 Allis Chalmers bulldozers and crawlers
- S77 — Front end work — most cars
- S77B — Steering clutch adjustment on H8-caterpillar tractor
- S83 — Steering clutch adjustment on International bulldozer

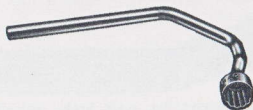
Double End Wrench — Offset

Especially designed Double End Box Wrench with deep offset for general purpose use.



Tool No.	Size Openings	Points	Length
S118	7/8" x 15/16"	12	14-1/8"

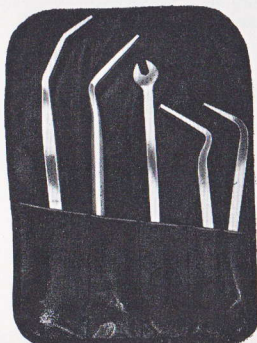
Rear Motor Mount Wrench Chevrolet Truck



Tool No.	Size Opening	Points	Length
S56	5/8"	12	14-1/8"

S56 — 5/8" Special Box Wrench for removing nuts on rear motor mount on Chevrolet truck

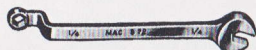
Brake Tool Set



KBT5 Set

Tool No. KBT5—Set of five brake adjusting tools in leatherette kit; includes Tool No. S7, S7A, S15, S53 and S75.

Bendix Brake Bleeder Wrench



Tool No.	Size Openings	Length
S72	1/4" x 1/4"	5"
S110	1/4" x 3/8"	8 1/2"

Brake Bleeder Wrenches



Tool No. S80

Tool No.	Size Openings	Length	Car
S80	5/16" x 3/8"	5"	Buick
S92	3/8" x 7/16"	9 1/4"	GMC Cars

Brake Eccentric Wrenches



Tool No.	Size	Length
S15	3/16"x1/4"	9"
S43	5/16"x3/8"	9"

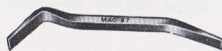
Brake Tool

CHEVROLET TRUCK



Tool No. S62—Short flat style brake adjusting tool for Chevrolet trucks.

Brake Tools



Tool No. S7 —Bendix brake adjusting tool—Short

Tool No. S53—Bendix brake adjusting tool—Long

Tool No. S100—Bendix brake adjusting tool—3/4" Blade

Tool No. S100A—Bendix brakes tool—5/8" x 9/16" Blade for 1959-60 model cars



Tool No. S7A—Chevrolet Brake Adjusting Tool

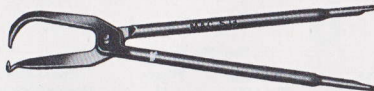
Tool No. S75—Oldsmobile Brake Adjusting Tool



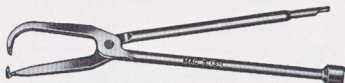
Tool No.	Description	Cars
S119	Brake Adjusting Tool	Corvaire 1961 Pontiac 1961 Tempest 1961

Brake Spring Tongs

Tongs that make your work easier. For Ford cars and cars with Bendix Brakes. S13T is ideal for putting on and taking off springs on hoods.



Tool No.	Size
S13	14" long (Passenger Cars)
S13T	20" long (Trucks)



Tool No.	Description	Size
S13-1	For Passenger Cars	14"

Brake Tool

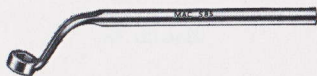
1956 Chrysler & DeSoto



Tool No. S84—7/16" Offset Box Wrench, 10" long for brake adjustment on 1956 Chrysler & DeSoto Cars.

Brake Bleeder Wrench

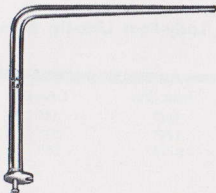
Chevrolet — 1955 & 1956



Tool No. S85—3/8" Offset Box Wrench for bleeding brakes on 1955 and 1956 Chevrolet cars.

Brake Return Spring Tool

1956 Chrysler Products



Tool No. S86—Brake Tool for removing and installing brake return spring in 1956 Chrysler products.

Brake Spanner Wrench



Tool No. S87A—Emergency Brake Spanner Wrench for Chrysler Products.

Brake Spring Tool



Tool No. S13B—Designed for Bendix Hydraulic brakes but will work on most springs. Socket end fits over post and by turning handle will either put on or take off springs.

Brake Cylinder Wrench

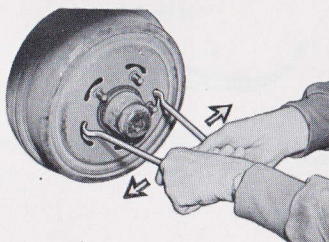
Special wrench designed to adjust hydraulic brake cylinders.



Tool No. S117

Tool No.	Size Opening	Length	Cars
S117	1/2" — 6 pt.	6-3/8"	Oldsmobile '61 Pontiac '61

Brake Drum Pullers CHEVROLET



Tool No. S115

Tool No. S115 — Brake Drum Pullers are furnished in pairs. Used as illustrated these pullers will facilitate the removal of brake drums on all Chevrolet Cars, Models 1940 through 1961 without hammering or use of heat.

Instructions:

Place the chisel end of pullers in holes provided in the brake drum. Drive sharp edge between drum and hub. With both pullers in place, alternate pressure is applied in direction of arrows.



Carbon Scrapers



Tool No. S16 Single End Carbon Scraper
 Tool No. SP16 Same as above with plastic handle



Tool No. S17R Single End Carbon Scraper
 Tool No. S17S Single End Carbon Scraper

Cotter Key Puller



Tool No. S29
 Tool No. S29 Wood Handle
 Tool No. SP29 Plastic Handle

Cotter Key Puller and Spreader

Tool No. S29A



Tool No. S29A — Special tool for use in spreading and pulling cotter keys.

Special Scratch Awls



Tool No. P30

Tool No.	Length	Stock Size	Type Handle
P30	7"	1/2" Oct.	Rubber Covered
P32	9-1/4"	3/8" Oct.	Plastic
P33	4-3/4"	1/4" Sq.	Plastic

Line-Up Pry Bars



Tool No.	Point Size	Length	Stock Size
M12	1/4"	15"	1/2"
M12A	5/16"	22"	5/8"

Line-Up Bar



This bar is not only used as a line-up bar but the hooked end is used for a retainer puller or to pry with.

Tool No.	Point Size	Length	Stock Size
M13	1/4"	15"	1/2"

Line-Up Bar



Tool No. M13A

Puller bar retainer similar to MAC M13 line up bar, but with extra bend for leverage.

Tool No.	Point Size	Length	Stock Size
M13A	1/4"	15"	1/2"

Lady-Foot Line-Up Bars



Tool No.	Point Size	Length	Stock Size
M26	1/4"	16"	1/2"
M26A	1/4"	21"	5/8"
M26B	3/16"	10"	7/16"

Rivet Busters

Tool No.	Edge	Length	Stock No.
M66	7/8"	12"	3/4"
M67	7/8"	18"	3/4"

Seal Puller

Special tool designed for use in pulling front seals on all automatic transmissions.



Tool No. S120

Tool No. S120 — Front Seal Puller on all automatic transmissions. Also an excellent tool for use on all seals where the shaft cannot be removed easily. A few taps with a hammer on back part of tool will remove any front pump seal on any General Motors automatic transmission.



Clutch Type Bits — ¼" Service (Not Guaranteed)



Tool No. 2824

Tool No.	Length	Point Size
2823	2-5/8"	5/32"
2824	2-5/8"	3/16"
2825	2-5/8"	1/4"
2827	2-5/8"	5/16"
2828	2-5/8"	3/8"

Phillips Bits — ¼" and ⅜" Service (Not Guaranteed)



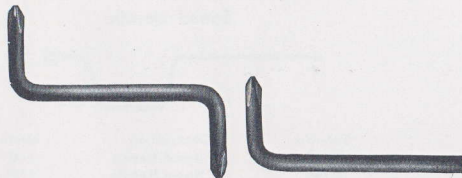
Tool No.	Length	Point Size	Drive
821	2"	#1	1/4"
822	2"	#2	1/4"
832	2-5/8"	#2	3/8"
833	2-5/8"	#3	3/8"
834	2-5/8"	#4	3/8"

Reed & Prince Screwdrivers

Reed & Prince Drivers are used in the aircraft industry. Super steel blades are furnished with the MAC GRIP WOOD HANDLE.

Tool No.	Shank Size	Blade Length	Overall Length
401F	3/16"	2-3/4"	6-3/4"
402F	1/4"	3-3/4"	9-1/4"

Phillips Offset or Angle Drivers (Not Guaranteed)



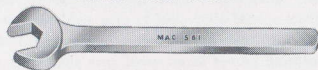
Offset Drivers

Tool No.	Point Size	Overall Length
721	#1	2-3/8"
722	#2	3-3/4"
723	#3	5"

Angle Drivers

Tool No.	Point Size	Length Overall
711	#1	2-1/4"
712	#2	3-1/2"
713	#3	5"

Tappet Wrenches — Special Extra Thick Head



Tool No. S61

Tool No.	Tappet Wrench	Length
S61	1/2" Single End	10"
S71	9/16" Single End	12"

S61 — Brake Anchor Bolts—Intl. Trucks
S71 — Tappet Wrench 1954 Pontiac

Open End Wrench — Special Extra Thick Heads

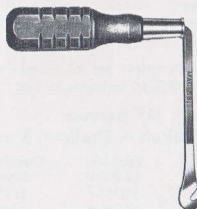


Tool No. S108

Open end wrench with extra thick heads for use on brass fittings or as a brake adjusting tool. Can also be used as an open end flare nut wrench.

Tool No.	Opening Size	Length
S108	3/8" x 7/16"	8-1/2"
S111	1/2" x 9/16"	9-1/4"

Headlight Bulb Tool General Motors Cars



Tool No. S91—Special Tool for sealed beam light bulbs in frame on all General Motors cars.

Engine Lifting Eye Bolt

A size to fit all popularly used spark plug threads. Assists in lifting engines when screwed into spark plug holes.



Tool No.	Size
EB3	14 MM



1/4" Square Drive Service

All MAC sockets and attachments in the 1/4" service are made from special alloy steel to give maximum strength and toughness. All tools are accurately machined for close tolerance assuring proper fit on small nuts and bolts.

1/4" Service Standard Sockets

Tool No. 6 Point	Tool No. 12 Point	Tool No. 8 Point	Opening Size
M66			3/16"
M76			7/32"
M86	M82	M88	1/4"
M96	M92		9/32"
M106	M102R	M108	5/16"
M116	M112R		11/32"
M126	M122R	M128	3/8"
M146	M142R		7/16"
M166	M162R		1/2"
M186	M182		9/16"



1/4" Service Deep Sockets

Tool No. 6 Point	Opening Size	Length
MD86	1/4"	2"
MD96	9/32"	2"
MD106	5/16"	2"
MD116	11/32"	2"
MD126	3/8"	2"
MD146	7/16"	2"
MD166	1/2"	2"
MD186	9/16"	2"



SM26 — Complete set of seven deep sockets, MD86 to MD166 inclusive in box.

1/4" Service Deep Sockets — Shallow Broach

Tool No. 6 Point	Tool No. 12 Point	Opening Size	Length
MD86B	MD82B	1/4"	2"
MD96B	MD92B	9/32"	2"
MD106B	MD102B	5/16"	2"
MD116B	MD112B	11/32"	2"
MD126B	MD122B	3/8"	2"
MD146B	MD142B	7/16"	2"
MD166B	MD162B	1/2"	2"
MD186B	MD182B	9/16"	2"



1/4" Service Universal Sockets

Tool No.	Six Point Openings Opening Size
MU86	1/4"
MU106	5/16"
MU116	11/32"
MU126	3/8"
MU146	7/16"
MU166	1/2"



1/4" Service Universal Sockets — Deep Length



Tool No.	Opening Size	Overall Length
MU126D	3/8"	1-9/16"
MU146D	7/16"	1-9/16"
MU166D	1/2"	1-9/16"
MU186D	9/16"	1-9/16"

1/4" Service Universal Joint



Tool No. M3U — Regular universal joint 1/4" drive, 1/4" square male, 1/4" square female.

1/4" Service Standard Flex Handle



All purpose handle enables the mechanic to get at the work from any angle. Male and female squares are provided so that tool can be used as an extension.

Tool No.	Length
M6F	6"

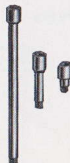
1/4" Service Speed Handle



Tool No.	Description	Drive
M13S	13" Speed Handle	1/4"
M16S	16" Speed Handle	1/4"

1/4" Service Socket Wrench Extensions

Tool No.	Length	Tool No.	Length
M1E	1"	M6E	6"
M2E	2"	M10E	10"
M3E	3"	M16E	16"
M4E	4"		





1/4" Service Sliding Bar T Handle



Tool No. M6T — Length 6"

Bar has center groove for spinning and friction ball to hold at any given point.

1/4" Service Spin Handle



Tool No.	Length	Drive
M5S	4-1/2"	1/4"

Spin handle in 1/4" drive with both male and female ends furnished with plastic handle. Steel shaft is solid all the way through the handle so that it can be used as an extension.

1/4" Service Reversible Ratchet

The MAC 1/4" Reversible Ratchet is forged from the best of alloy steel and is accurately machined to close tolerances. Reversing is easily accomplished with one hand by use of trigger action reversing lever.



Tool No.	Tool No. M1R	Drive	Length
M1R		1/4"	4-1/2"

1/4" Service Midget Socket Set — Special



Set No. SM46

SM46 — Special 1/4" drive socket set consists of 15 carefully selected sockets and attachments furnished in attractive metal box. The ideal set for work on ignition, carburetor, and small motors.

Tool No.	Description	Tool No.	Description
M66	3/16" Std. Skt.— 6 pt.	M146	7/16" Std. Skt.— 6 pt.
M76	7/32" Std. Skt.— 6 pt.	M166	1/2" Std. Skt.— 6 pt.
M86	1/4" Std. Skt.— 6 pt.	M88	1/4" Std. Skt.— 8 pt.
M96	9/32" Std. Skt.— 6 pt.	M108	5/16" Std. Skt.— 8 pt.
M106	5/16" Std. Skt.— 6 pt.	M6F	6" Flex Handle
M116	11/32" Std. Skt.— 6 pt.	M2E	2" Extension
M126	3/8" Std. Skt.— 6 pt.	M6E	6" Extension
		M1R	Reversible Ratchet
		MB101	Metal Box

1/4" Service Midget Socket Set — Standard



SM16 Set

SM16 — All tools in this 11 piece midget socket set have been carefully selected for use where quality midget sockets and attachments are needed for assembly or maintenance. Set is furnished in attractive metal case and contains one each of the following:

Tool No.	Description	Tool No.	Description
M86	1/4" Std. Socket	M2E	2" Extension
M96	9/32" Std. Socket	M6E	6" Extension
M106	5/16" Std. Socket	M6F	6" Flex Handle
M116	11/32" Std. Socket	M6T	6" Sliding T Hdl.
M126	3/8" Std. Socket	MB101	Metal Box Only
M146	7/16" Std. Socket		
M166	1/2" Std. Socket		

1/4" Service Midget Socket Set — Deluxe



SM36 — DeLuxe 29 piece six point midget socket set. All tools forged from fine alloy steel, accurately machined, heat treated, and finished with polished nickel chrome plating. Set is furnished in attractive metal box and contains the following tools:

Tool No.	Description	Tool No.	Description
M88	1/4" Std. Socket— 8 pt.	MU86	1/4" Universal Socket
M108	5/16" Std. Socket— 8 pt.	MU106	5/16" Universal Socket
M128	3/8" Std. Socket— 8 pt.	MU126	3/8" Universal Socket
M86	1/4" Std. Socket— 6 pt.	MD86	1/4" Deep Socket
M96	9/32" Std. Socket— 6 pt.	MD96	9/32" Deep Socket
M106	5/16" Std. Socket— 6 pt.	MD106	5/16" Deep Socket
M116	11/32" Std. Socket— 6 pt.	MD116	11/32" Deep Socket
M126	3/8" Std. Socket— 6 pt.	MD126	3/8" Deep Socket
M146	7/16" Std. Socket— 6 pt.	MD146	7/16" Deep Socket
M166	1/2" Std. Socket— 6 pt.	MD166	1/2" Deep Socket
M186	9/16" Std. Socket— 6 pt.	M3U	Universal Joint
		M1E	1" Extension
		M2E	2" Extension
		M6E	6" Extension
		M6F	6" Flex Handle
		M6T	6" Sliding T Handle
		M5S	5" Spin Handle
		M1R	Reversible Ratchet
		MB102	Metal Box



3/8" Service Standard Sockets



6 Point Tool No.	8 Point Tool No.	12 Point Tool No.	Opening Size
X66			3/16"
X86			1/4"
X96			9/32"
X106		X102	5/16"
X116			11/32"
X126	X128	X122	3/8"
X146	X148	X142	7/16"
X156			15/32"
X166	X168	X162	1/2"
		XH162	1 1/2"
		X172	17/32"
X186		X182	9/16"
		X192	19/32"
X206		X202	5/8"
X226		X222	11/16"
X246		X242	3/4"
		X252	25/32"
X266		X262	13/16"
X286		X282	7/8"
X306		X302	15/16"

SX1 Set of seven 6 point sockets in cardboard box, X126 to X246 inclusive. (Graduated in 1/16" sizes.)

SX1A Set of seven 12 point sockets in cardboard box, X122 to X242 inclusive. (Graduated in 1/16" sizes.)

Special Uses:

- X102 Olds Air Compressor and Buick Air Ride
- XH162 Ford Rocker Arms (Spl. steel for hardness)

3/8" Service Standard Socket Sets



SX12

SX12 This set is furnished in a handy metal tray with 9 Standard MAC sockets, 12-point, 3/8" square drive as follows:

Tool No.	Description	Tool No.	Description
X86	1/4"	X182	9/16"
X106	5/16"	X202	5/8"
X126	3/8"	X222	11/16"
X142	7/16"	X242	3/4"
X162	1/2"		

SX16 Set is furnished with 6-point sockets, otherwise it is identical with Set No. SX12.

XT1 Metal tray only.

SX56 An 11-piece set of Standard MAC sockets; 6-point, 3/8" square drive, furnished in attractive and handy tray as follows:

Tool No.	Description	Tool No.	Description
X86	1/4"	X206	5/8"
X106	5/16"	X226	11/16"
X126	3/8"	X246	3/4"
X146	7/16"	X266	13/16"
X166	1/2"	X286	7/8"
X186	9/16"		

SX52 This is an 11-piece set of Standard MAC Sockets, identical with the above set except supplied with 12-point sockets.

XT5 Metal tray separate.

3/8" Service Deep Sockets



Tool No. 6-Point	Tool No. 12-Point	Opening Size	Length
XD86		1/4"	1-3/4"
XD106		5/16"	1-3/4"
XD126	XD122	3/8"	1-3/4"
XD146	XD142	7/16"	1-3/4"
XD166	XD162	1/2"	1-7/8"
XD186	XD182	9/16"	1-7/8"
XD206	XD202	5/8"	2-3/4"
XD226	XD222	11/16"	2-3/4"
XD246	XD242	3/4"	2-3/4"
XD266	XD262	13/16"	2-3/4"
XD286	XD282	7/8"	2-3/4"
XD306	XD302	15/16"	2-3/4"

3/8" Service Deep Sockets — 6 Point

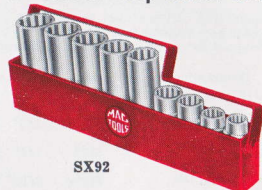
SHALLOW BROACH



Tool No.
XD266B

Tool No.	Opening Size	Broach Depth	Length
XD86B	1/4"	5/16"	1-3/4"
XD106B	5/16"	5/16"	1-3/4"
XD126B	3/8"	3/8"	1-25/32"
XD146B	7/16"	3/8"	1-25/32"
XD166B	1/2"	3/8"	1-29/32"
XD186B	9/16"	7/16"	1-29/32"
XD206B	5/8"	1/2"	2-3/4"
XD226B	11/16"	9/16"	2-3/4"
XD246B	3/4"	5/8"	2-3/4"
XD266B	13/16"	11/16"	2-3/4"
XD286B	7/8"	3/4"	2-3/4"

3/8" Service Deep Socket Sets



SX92

SX96—Set of 9 six point Deep Sockets XD126 to XD286 inclusive, in handy metal tray.

SX92—Set of 9 twelve point Deep Sockets XD122 to XD282 inclusive, in handy metal tray.

XT2—Metal Tray Only.



3/4" Universal Sockets Screw Type Assembly REGULAR LENGTH

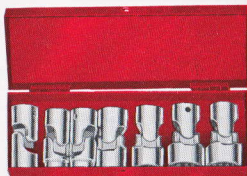
This type of MAC Universal Socket is assembled with Allen Socket Screw Head Screws. Spring tension is easily adjusted and the socket can be easily repaired in the field. All MAC Universal Sockets have a spring tension in the joint so that they will stay in place when putting them on the nut.



6 and 12-Point Openings

Tool No.	Tool No.	Opening Size
6-Point	12-Point	
XU126-R	XU122-R	3/8"
XU146-R	XU142-R	7/16"
XU166-R	XU162-R	1/2"
*XU186-D		9/16"
XU186-R	XU182-R	9/16"
XU206-R	XU202-R	5/8"
XU226-R	XU222-R	11/16"
XU246-R	XU242-R	3/4"

* Special deep length universal socket for exhaust manifold flange. Chevrolet '58-'59-'60.



SX46 With the many difficult spots to reach on late model cars, a Universal socket is almost indispensable. This set of 7 MAC Universal sockets, 6-point 3/8" drive is furnished in an attractive metal box and consists of:

Tool No.	Description	Tool No.	Description
XU126-R	3/8"	XU206-R	5/8"
XU146-R	7/16"	XU226-R	11/16"
XU166-R	1/2"	XU246-R	3/4"
XU186-R	9/16"		

SX42 This set is identical with the above set except it is furnished with 12-point sockets.

XB4 Metal box separate

3/8" Service Universal Sockets Screw Type Assembly

SHORT LENGTH

Special short length Universal Sockets with screw type assembly designed for work at close quarters.

Tool No.	Opening Size	Overall Length
6 Point		
XU146A	7/16"	1-1/2"
XU166A	1/2"	1-1/2"
XU186A	9/16"	1-1/2"
XU206A	5/8"	1-1/2"



3/8" Service Metric Sockets — 6 Point Standard Lengths

Standard Length

Metric size sockets are for use on most European cars. They are forged from special alloy steel for added strength and toughness and are furnished in six point only in the 3/8" drive, in sizes ranging from 7 millimeters to 19 millimeters inclusive.

Tool No.	Size Opening	Tool No.	Size Opening
XM7-6	7 M/M	XM13-6	13 M/M
XM8-6	8 M/M	XM14-6	14 M/M
XM9-6	9 M/M	XM15-6	15 M/M
XM10-6	10 M/M	XM16-6	16 M/M
XM11-6	11 M/M	XM17-6	17 M/M
XM12-6	12 M/M	XM18-6	18 M/M
		XM19-6	19 M/M

SXM13 Set of 13 Metric standard length sockets, XM7-6 to XM19-6 inclusive, in metal tray.

XT6 Metal tray only.

3/8" Service Metric Deep Sockets — 6 Point

Tool No.	Size Opening	Length
XDM7-6	7 M/M	1-3/4"
XDM8-6	8 M/M	1-3/4"
XDM9-6	9 M/M	1-25/32"
XDM10-6	10 M/M	1-25/32"
XDM11-6	11 M/M	1-25/32"
XDM12-6	12 M/M	1-29/32"
XDM13-6	13 M/M	1-29/32"
XDM14-6	14 M/M	1-29/32"
XDM15-6	15 M/M	2-3/4"
XDM16-6	16 M/M	2-3/4"
XDM17-6	17 M/M	2-3/4"
XDM18-6	18 M/M	2-3/4"
XDM19-6	19 M/M	2-3/4"



SXDM13 Set of 13 Metric Deep Sockets XDM7-6 to XDM19-6 in Metal Tray.

XT7 Metal Tray Only.

Tool No.
XDM7-6

3/8" Service Metric Universal Sockets

REGULAR LENGTH

Tool No.	Opening Size	Overall Length
XMU8-6	8 M/M	1-3/4"
XMU9-6	9 M/M	1-3/4"
XMU10-6	10 M/M	1-3/4"
XMU11-6	11 M/M	1-3/4"
XMU12-6	12 M/M	1-3/4"
XMU13-6	13 M/M	1-3/4"
XMU14-6	14 M/M	1-3/4"
XMU15-6	15 M/M	1-3/4"
XMU16-6	16 M/M	1-3/4"



Tool No. XMU14-6

SXM9 9 Pc. Metric Universal Socket Set in Metal Box.

XB9 Metal Box Only.

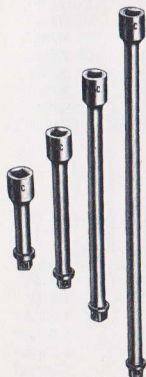
3/8" Service Universal Joint



Regular Universal Joint 3/8"
Square Male; 3/8" Square
Female.

Tool No. X3U

3/8" Service Socket Wrench Extensions



Tool No.	Length
X1E	1 1/2"
X3E	3"
X5E	5"
X6E	6"
X8E	8"
X12E	12"
X16E	16"
X20E	20"
X24E	24"
X34E	34"

3/8" Service Wobble Joint Extension



Tool No. X6EW

An excellent tool for general use where, only a small angle is required.

Special Use: Door hinges on 1957 Buick when used with special socket XH106.

Tool No.	Description	Drive
X1EW	1" Wobble Joint Extension	3/8"
X3EW	3" Wobble Joint Extension	3/8"
X6EW	6" Wobble Joint Extension	3/8"
X34EW	34" Wobble Joint Extension	3/8"

3/8" Service Screw Driver Bit



Tool No. X3SD

Standard screw driver bit for use with 3/8" drive attachments. Forged in one piece from the best alloy steel.

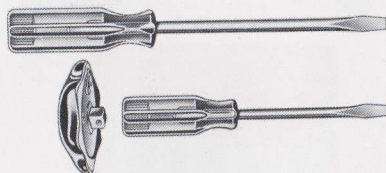
Tool No.	Length	Tip Thickness	Tip Width
X3SD	2-3/4"	.060	7/16"

3/8" Service Speed Handles



Tool No.	Length
X17S	17"
X26S	26"
X34S	34"

3/8" Service Palm Grip Ratchet and Utility Set



Set No. XUK

The Palm Grip Ratchet fits the palm of your hand. Easy to apply pressure for maximum leverage. Can be used on any 3/8" service sockets and extensions.

Tool No.	Description	Drive
X3P	Palm Grip Ratchet	3/8"
X14	Screw Driver, 1/4" stock, 4" blade	3/8"
XJ6	Screw Driver, 5/16" stock, 6" blade	3/8"
XUK	Utility Set. Set includes one each of the tools listed.	

3/8" Service Crescent Reversible Ratchet



Tool No. CT70X

The New Crescent Ratchet with 48 teeth provides the finer adjustment needed on work in close quarters. Simplicity of design adds strength and durability.

Tool No.	Drive	Overall Length
CT70X	3/8"	7"



3/8" Service Standard Socket Sets



SX66 Set

SX66 This 17-piece set, 6-point, 3/8" square drive, is designed to fulfill the needs of the professional mechanic. All tools are forged from the best alloy steel obtainable for the purpose. Set is furnished in a sturdy and attractive metal carrying box and consists of:

Tool No.	Description	Tool No.	Description
X86	1/4" Skt.	X266	13/16" Skt.
X106	5/16" Skt.	X286	7/8" Skt.
X126	3/8" Skt.	X5E	5" Extension
X146	7/16" Skt.	X12E	12" Extension
X166	1/2" Skt.	X17S	17" Spd. Hdl.
X186	9/16" Skt.	X8F	8" Flex. Hdl.
X206	5/8" Skt.	X3U	Univ. Jt.
X226	11/16" Skt.	X7R	Rev. Ratchet
X246	3/4" Skt.		

SX62 This set is furnished with 12-point sockets with the exception of the 3/4" and 1/2" which are 6-point, otherwise set is identical with the SX66 set.

XB3 Metal box only.

Standard Socket Sets as listed above can be ordered out with the Crescent Ratchet, Tool No. CT70X, replacing the X7R Ratchet, as follows:

Set No.	Description
SX62C	Standard 17 Piece Socket Set—12 Point
SX66C	Standard 17 Piece Socket Set—6 Point

3/8" Service Sliding Bar T Handle

Bar has center groove for spinning and friction ball for holding at any given point.



Tool No. X8T—8" long

3/8" Service Standard Flex Handle

All purpose handle enables the mechanic to get at the work from any angle.



Tool No.	Length
X8F	8"
X12F	12"

3/8" Service Deluxe Socket Sets



SX86 Set

SX86 Deluxe 33 Piece, 6 Point Socket Set. All tools are forged from the best alloy steel available. Set is furnished in an attractive metal box and contains the following tools:

Tool No.	Description	Tool No.	Description
X86	1/4" Standard Skt.	XD246	3/4" Deep Socket
X106	5/16" Standard Skt.	XD266	13/16" Deep Socket
X126	3/8" Standard Skt.	XU126	3/8" Univ. Socket
X146	7/16" Standard Skt.	XU146	7/16" Univ. Socket
X166	1/2" Standard Skt.	XU166	1/2" Univ. Socket
X186	9/16" Standard Skt.	XU186	9/16" Univ. Socket
X206	5/8" Standard Skt.	XU206	5/8" Univ. Socket
X226	11/16" Standard Skt.	XU226	11/16" Univ. Socket
X246	3/4" Standard Skt.	XU246	3/4" Univ. Socket
X266	13/16" Standard Skt.	X1E	1" Extension
X286	7/8" Standard Skt.	X5E	5" Extension
XD126	3/8" Deep Socket	X12E	12" Extension
XD146	7/16" Deep Socket	X3U	Universal Joint
XD166	1/2" Deep Socket	X8F	Flex Handle
XD186	9/16" Deep Socket	X17S	Speed Handle
XD206	5/8" Deep Socket	X7R	Rev. Ratchet
XD226	11/16" Deep Socket	XB5	Metal Box

SX82—Deluxe 33 piece 12 point socket set. This set is identical with the SX86 set listed above with all sockets being furnished in 12 point except the 1/4" and 5/16" standard sockets.

XB5—Metal Box Only

Deluxe Socket Sets as listed above can be ordered out with the Crescent Ratchet, Tool No. CT70X, replacing the X7R Ratchet, as follows:

Set No.	Description
SX82C	Deluxe 33 Piece Socket Set—12 Point*
SX86C	Deluxe 33 Piece Socket Set—6 Point

*The 1/4" and 5/16" Standard Sockets available in 6 pt. only.

3/8" Service Reversible Ratchet

The MAC 3/8" drive reversible ratchet is forged from the best alloy steel obtainable for the purpose. It is accurately machined to close tolerances and with its 20-tooth mechanism assures close action in the most inaccessible places. Reversing is easily accomplished with one hand by use of the trigger action reversing lever.



Tool No.	Drive	Length
X7R	3/8"	7"
M1RX	3/8"	4-1/2"



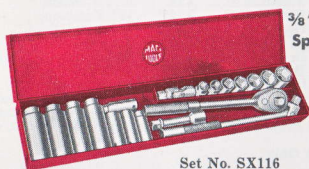
3/8" Service Special Socket Set

Set No. SX106

Set No. SX106—Special Socket Set consists of 10 carefully selected tools to provide quick service on the most popular sizes. Tools are forged from the best alloy steel available. Set is furnished in attractive metal box and consists of the following tools:

Tool No.	Description	Tool No.	Description
X126	3/8" Std. Skt.—6 pt.	X226	11/16" Std. Skt.—6 pt.
X146	7/16" Std. Skt.—6 pt.	X246	3/4" Std. Skt.—6 pt.
X166	1/2" Std. Skt.—6 pt.	X8F	8" Flex Handle
X186	9/16" Std. Skt.—6 pt.	X3E	3" Extension
X206	5/8" Std. Skt.—6 pt.	X7R	Reversible Ratchet
		XB10	Metal Box

Set No. SX102—Special 10 piece Socket Set is identical to SX106 except all sockets are 12 point.
XB10—Metal Box only.



3/8" Square Service Special Socket Set

Set No. SX116

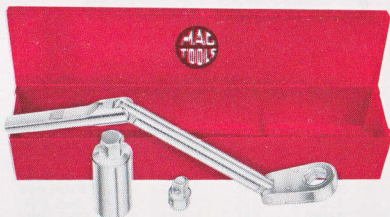
Set No. SX116—Special 19 piece Socket Set. Careful selection of the 6 point standard and deep socket and attachments has been made to provide the utmost in service on the most popular sizes. Set is furnished in an attractive compact metal box and consists of the following tools:

Tool No.	Description	Tool No.	Description
X126	3/8" Std. Skt.—6 pt.	XD166	1/2" Deep Skt.—6 pt.
X146	7/16" Std. Skt.—6 pt.	XD186	9/16" Deep Skt.—6 pt.
X166	1/2" Std. Skt.—6 pt.	XD206	5/8" Deep Skt.—6 pt.
X186	9/16" Std. Skt.—6 pt.	XD226	11/16" Deep Skt.—6 pt.
X206	5/8" Std. Skt.—6 pt.	XD246	3/4" Deep Skt.—6 pt.
X226	11/16" Std. Skt.—6 pt.	XD266	13/16" Deep Skt.—6 pt.
X246	3/4" Std. Skt.—6 pt.	X8F	8" Flex Handle
XD126	3/8" Deep Skt.—6 pt.	X3E	3" Extension
XD146	7/16" Deep Skt.—6 pt.	X7R	Reversible Ratchet
		X3U	Universal Joint
		XB11	Metal Box

Set No. SX112—Special 19 piece Socket Set is identical to SX116 except all sockets are 12 point.
XB11—Metal Box only.

Flex Handle Ratchet* and Attachments (*Patent Applied For)

The MAC XRF Flex Handle Ratchet is a new tool on which patent has been applied for. The tool was designed primarily to speed up the servicing of spark plugs and for general use with the 3/8" drive sockets and attachments. With its amazing flexibility this TIME SAVING tool is a must for every mechanic's tool box. All tools have been made from the best alloy steel available for this purpose and have been accurately machined to close tolerances to provide quick, accurate, trouble free service.



Set No. SXF-1

Flex Handle Ratchet and Attachments

Tool No.	Description
XRF	Flex Handle Ratchet—9/16" opening, 6 point.
XRF-P	3/8" Square Drive Adaptor for XRF Flex Ratchet.
XRS266	13/16" Spark Plug Socket Adaptor with Neoprene rubber insert.

Flex Ratchet Set

SXF-1 Flex Ratchet Set complete with adaptors listed, in metal box.

XB12 ** Metal Box only for SXF-1 Set.

** Space provided in metal box for addition of 3/8" Drive Sockets.

UNUSUAL FEATURES—XRF RATCHET

1. Designed to facilitate spark plug installation or removal.
2. 3/8" square in handle, provided for torquing purposes, is 8" from center of 9/16" opening.
3. Complete flexibility provided for working in close quarters.
4. Provided with 9/16" hex opening for direct use on this popular size nut.
5. Provided with 13/16" spark plug deep socket adaptor.
6. Furnished with 3/8" square adaptor for use with 3/8" drive sockets and attachments.

SPECIAL USES

Spark plug and shock absorber work on most cars.

NOTE: See Page 37 for new VRF Flex Handle Ratchet used with 1/2" drive sockets and attachments.

Ratchet Spinner — 1/4" x 3/8" Service

The ratchet spinner is an extremely handy tool for speed in running the nut on or off. It can be used with a ratchet without increasing the socket length.



Tool No.	Description	Drive
MRS	Ratchet Spinner	1/4"
XRS	Ratchet Spinner	3/8"

Tool No. XRS



Special Tools 3/8" Service Spin Handle



Tool No.
X6S

Length
5-1/2"

Plastic
Handle

3/8" Service Transmission Socket (Not Guaranteed)

Special socket designed for use on transmissions on 1957 cars. Can be used with Impact Driver (ID67).

Tool No.	Opening Size	Points
XI-124	3/8"	4

3/8" Service Special Socket



Tool No. XH106—5/16" Heavy duty socket 6 point. Designed for use with tool No. X6EW for work on door hinges of Buick '57. Tool has many other uses.

3/8" Service Drain Plug Sockets

Tool No. X94 9/32" Square Socket for Buick Dynaflo.

Tool No. X104 5/16" Square Socket for GMC Hydramatic.

Tool No. X94

Brake Bleeder Socket Wrenches



Tool No. SC31

Special tool for removing bleeder screw cap and turning screw.

Tool No.	Size Opening	Car
SC31	5/16" x 3/8"	Ford, Lincoln, Chevrolet
SC32	3/8" x 7/16"	Valiant and other compact cars
SC33	1/4" x 5/16"	

3/8" Service Windshield Wiper Socket Chevrolet 1955



Tool No.
SC21

Length
2-3/4"

Drive
3/8"

Ignition Switch Sockets



SC26

Tool No.	Drive	Car
SC20	3/8"	Chevrolet 1953-56
SC26	3/8"	Chevrolet and Pontiac 1957

Special Sockets

Tool No. SC27 Steering Post Support Socket for Plymouth 1957. 1/2" opening, 3/8" drive with extra thin wall. Used for tightening steering post supports to eliminate squeaks.

Tool No. SC56 Rocker Arm Housing on Ford V-8. 1/2" hex opening, 3/8" drive and 2-3/4" overall length.

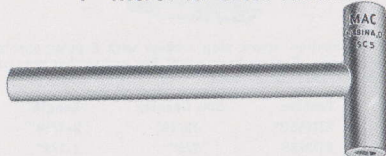
Oval Shaped Sockets Shock Absorber and Power Steering

Tool No.	Size Oval	Drive	Use
SC28	3/16" x 1/4"	3/8"	Shock Absorber
SC34	5/16" x 1/4"	3/8"	Shock Absorber
SC39	3/16" x 3/8"	3/8"	Power Steering

Special Use:

Shock Absorbers—on all model Fords since 1949; also used on Buick, Nash and other cars. Power Steering—adjustment screw on steering sector shaft on all 1958 Chrysler products.

Oval Shaped Socket "T" Wrench for Shock Absorbers



Tool No.	Description	Size Oval
SC5	"T" Wrench	3/16" x 1/4" 5/16" x 1/4"

Handle end is drilled and tapped to screw on stud for pulling same.

Self Threading Nut Sockets



Tool No. SC36

Special Socket for Patented Locking Nut used on General Motors Cars.

Tool No.	Size	Drive
SC36	3/16"	3/8"
SC37	1/8"	3/8"
SC44*	1/8"	1/4"

* Overall length—7/8"

Pet Cock Socket Wrench



Tool No. SC16



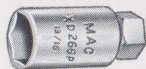
**3/4" Service
Wing Nut Socket
For
Valve Cover Plates
Chrysler Product**



3/4" Service Weatherhead Sockets

Tool No.	Opening Size
X014	7/16"
X016	1/2"
X018	9/16"
X020	5/8"

Spark Plug Sockets 3/4" Service



Special shallow spark plug sockets with 6 point opening in 3/8" service. Sockets have a 3/4" hex end so that regular box or end wrench can be used.

Tool No.	Size Opening	Length
XD266P*	13/16"	2-5/16"
XD286S	7/8"	2-1/2"

XR2 Neoprene Rubber Insert for XD266P

*Note: Neoprene rubber retainer for spark plug, incorporated in tool No. XD266P

3/4" Service Special Sockets

Tool No.	Description
SC9	Starter Button—Chrysler Cars
SC11	Windshield Wiper Wrench for Nash and Plymouth
SC14	Light Switch Wrench for '49 Chevrolet and Pontiac
SC41	Windshield Wiper Socket—Chevrolet '59
SC42	Windshield Washer Socket—Chevrolet '59
SC50	Windshield Wiper Nut—GMC Cars (used with SC42 for removal of top nut on windshield wiper assembly)
SC57	Spanner Socket for Clutch Finger on GMC and Mack Trucks



Tool No. SC42

Clutch Type Bits — 3/4" Service

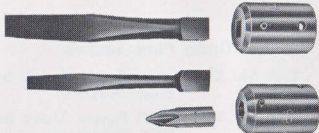
Tool No. XC12

Short series of the popular Clutch Head Bits in the 3/4" service for the hard-to-get-at places.



Tool No.	Length of Blade	Point Size
XC8	1/2"	1/4"
XC10	1/2"	5/16"
XC12	1/2"	3/8"

3/4" Service Socket Drivers and Bits



Socket Drivers with Insert Bits

Tool No.	Drive	Bit Type
X46D	3/8"	1/8" Hex Insert
X56D	3/8"	5/32" Hex Insert
X66D	3/8"	3/16" Hex Insert
X76D	3/8"	7/32" Hex Insert
X86D	3/8"	1/4" Hex Insert
X104D	3/8"	5/16" Hex Insert
X106D	3/8"	3/8" Hex Insert
X126D	3/8"	3/8" Hex Insert

Interchangeable Inserts — Square Screw Driver Blade for X104D Only

Tool No.	Type	Point or Width	Length	Stock
SX8	Slotted	1/4"	2-5/8"	5/16"
SX10	Slotted	5/16"	2-3/4"	5/16"
SX12	Slotted	3/8"	2-7/8"	5/16"

Hex Insert Blades

Tool No.	Type	Point or Width	Length	Stock
304	Allen	1/8"	2"	1/8"
305	Allen	5/32"	2"	5/32"
306	Allen	3/16"	2"	3/16"
307	Allen	7/32"	2"	7/32"
308	Allen	1/4"	2"	1/4"
310	Allen	5/16"	2"	5/16"
312	Allen	3/8"	2"	3/8"
441	Phillips	No. 1	1"	1/4"
442	Phillips	No. 2	1"	1/4"
443	Phillips	No. 3	1"	1/4"



1/2" Square Drive Service Standard Sockets

6 Point	12 Point	Opening Size
V126		3/8"
V146	V142	7/16"
V166	V162	1/2"
V186	V182	9/16"
	V192	19/32"
V206	V202	5/8"
V226	V222	11/16"
V246	V242	3/4"
	V252	25/32"
V266	V262	13/16"
V286	V282	7/8"
	V292	29/32"
V306	V302	15/16"
V326	V322	1"
V346	V342	1-1/16"
V366	V362	1-1/8"
V386	V382	1-3/16"
V406	V402	1-1/4"
V426		1-5/16"
V446		1-3/8"
V466		1-7/16"
V486		1-1/2"
V506		1-9/16"



Standard Socket Sets



SV12

SV12 The 14-piece set of Standard MAC sockets, 12-point, 1/2" square drive, comes in a handy metal tray and contains the following:

Tool No.	Description	Tool No.	Description
V142	7/16"	V282	7/8"
V162	1/2"	V302	15/16"
V182	9/16"	V322	1"
V202	5/8"	V342	1-1/16"
V222	11/16"	V362	1-1/8"
V242	3/4"	V382	1-3/16"
V262	13/16"	V402	1-1/4"

SV16 This 14-piece set is supplied in 6-point sockets, otherwise it is identical with the above set.

VT1 Metal tray only.

SV19—Set of 19 Six Point Sockets, V126 to V486 inclusive, in attractive Metal Box.

VB3—Metal Box only (for SV19).

1/2" Service Metric Sockets — 12 Point

Metric size sockets are for use on most European cars. They are furnished in 12 point only in the 1/2" drive in sizes ranging from 10 millimeters to 32 millimeters.

Tool No.	Size Opening	Tool No.	Size Opening
VM10-2	10 M/M	VM21-2	21 M/M
VM11-2	11 M/M	VM22-2	22 M/M
VM12-2	12 M/M	VM23-2	23 M/M
VM13-2	13 M/M	VM24-2	24 M/M
VM14-2	14 M/M	VM25-2	25 M/M
VM15-2	15 M/M	VM26-2	26 M/M
VM16-2	16 M/M	VM27-2	27 M/M
VM17-2	17 M/M	VM28-2	28 M/M
VM18-2	18 M/M	VM29-2	29 M/M
VM19-2	19 M/M	VM30-2	30 M/M
VM20-2	20 M/M	VM31-2	31 M/M
		VM32-2	32 M/M

SVM22 Set of 22 metric standard length sockets, VM10-2 to VM32-2 inclusive in metal box

VB3 Metal Box only

1/2" Service Deep Sockets 6 and 12 Pt. — Deep Spline

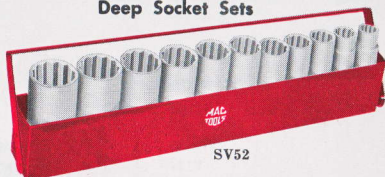
Tool No.	Tool No.	Opening Size	Length
6 Point	12 Point		
VD146		7/16"	3"
VD166	VD162	1/2"	3"
VD186	VD182	9/16"	3"
VD206	VD202	5/8"	3"
VD226	VD222	11/16"	3"
VD246	VD242	3/4"	3"
VD266	VD262	13/16"	3-1/4"
	*VD262-0	13/16"	3-1/4"
VD286	VD282	7/8"	3-1/4"
VD306	VD302	15/16"	3-1/4"
VD326	VD322	1"	3-1/4"
VD346	VD342	1-1/16"	3-1/4"
VD366	VD362	1-1/8"	3-1/4"

* Spark Plug Socket—Thin Wall.

1/2" Service Deep Sockets — 6 Point Shallow Broach

Tool No.	Opening Size	Broach Depth	Length
VD166B	1/2"	13/32"	3"
VD186B	9/16"	7/16"	3"
VD206B	5/8"	17/32"	3"
VD226B	11/16"	9/16"	3"
VD246B	3/4"	19/32"	3"
VD266B	13/16"	5/8"	3-1/4"
VD286B	7/8"	21/32"	3-1/4"
VD306B	15/16"	11/16"	3-1/4"
VD326B	1"	3/4"	3-1/4"
VD346B	1-1/16"	13/16"	3-1/4"
VD366B	1-1/8"	7/8"	3-1/4"

1/2" Service Deep Socket Sets



SV52

SV52 The 11-piece MAC Deep Socket Set, 12-point, 1/2" square drive, is furnished in a handy metal tray as illustrated above and consists of:

Tool No.	Description	Tool No.	Description
VD162	1/2"	VD282	7/8"
VD182	9/16"	VD302	15/16"
VD202	5/8"	VD322	1"
VD222	11/16"	VD342	1-1/16"
VD242	3/4"	VD362	1-1/8"
VD262	13/16"		

SV56 Set is furnished with 6-point deep sockets, otherwise it is identical with set No. SV52.

VT5 Metal tray alone.



1/2" Service Universal Sockets Screw Type Assembly

This type of MAC Universal Socket is assembled with Allen Socket Head Screws. Spring tension is easily adjusted and socket can be easily repaired in the field. All MAC Universal Sockets and joints have a spring tension in the joint so that they will stay in a place when putting them on the nut.

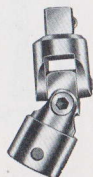


6 POINT OPENINGS

Tool No.	Opening Size
VU166	1/2"
VU186	9/16"
VU206	5/8"
VU226	11/16"
VU246	3/4"
VU266	13/16"
VU286	7/8"
VU286D*	7/8"

* Special Universal Socket with deep length of spline for Caster Camber adjustment on 1958 Oldsmobile; also used on some models of 1958 Cadillac.

1/2" Service Universal Joint



Tool No. V3US New style MAC 1/2" Drive Universal Joint is assembled with Allen Socket head set screws. Spring tension is easily adjusted and tool can be repaired in the field.

1/2" Service - 4 and 8 Point Sockets



4 Point	8 Point	Width
V124		3/8"
V144	V148	7/16"
V164	V168	1/2"
V184	V188	9/16"
V204	V208	5/8"
	V228	11/16"
	V248	3/4"
	V268	13/16"
	V288	7/8"
	V328	1"

SV10 — Set of ten 4 and 8 point sockets in metal tray: V124 and V148 to V328 inclusive.
VT4 — Metal Tray Only

1/2" Service Reversible Ratchet — Standard

The MAC 1/2" Drive Standard Reversible Ratchet is forged from the best alloy steel obtainable for the purpose. It is accurately machined to close tolerances and with its 20-tooth mechanism assures close action in the most inaccessible places. Reversing is easily accomplished with one hand by use of the trigger action reversing lever.



Tool No.	Tool No. V6R Drive	Length
V6R	1/2"	10"

1/2" Service Reversible Ratchet — Heavy Duty

The MAC heavy duty reversible ratchet is a definite need of the professional mechanic for heavy duty maintenance work. It is forged from the finest quality steel and operates on the same principle as the smaller standard ratchet. It is machined to close tolerances, has 20-tooth mechanism and trigger action reversing. Handles are easily changed by removing Allen set screw in head of ratchet.



Tool No.	Ratchet	Tool No.	Handle
VR16	16" Handle	VR16H	Handle Only
VR10	10" Handle	VR10H	Handle Only
VR3	Stub Handle	VR3H	Handle Only
V7R	Ratchet Head Only		

1/2" Service Reversible Ratchet — Crescent

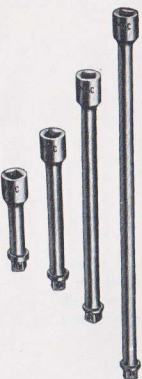


The New Crescent Ratchet with 48 teeth provides the finer adjustment needed on work in close quarters. Simplicity of design adds strength and durability.

Tool No.	Drive	Length
CS70X	1/2"	9-1/4"

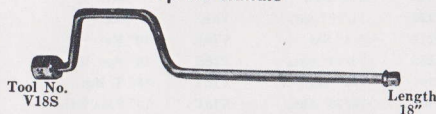


1/2" Service Extensions



Tool No.	Length
V2E	2"
V3E	3"
V5E	5"
V7E	7"
V10E	10"
V15E	15"
V20E	20"
V25E	25"
V30E	30"
V36E	36"

1/2" Service Speed Handle



1/2" Service Standard Flex Handle

All purpose handle for getting at the work from any angle.



Tool No.	Stock Size	Length
V12F	5/8"	12"
V18F	5/8"	18"
V24F	5/8"	24"

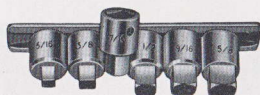
Standard Flex Handle Repair Head Only



All new style MAC 1/2" drive Flex Handles are assembled with Allen socket head set screws. Replacement easily made in the field.

Tool No. VRH Repair Head—1/2" Flex Handle

1/2" Service Drain Plug Sockets



Tool No.	Description	Tool No.	Description
VP8	1/4"	VP14	7/16"
VP9*	9/32"	VP16	1/2"
VP10	5/16"	VP18	9/16"
VP12	3/8"	VP20	5/8"

NOTE: VP8 Not Guaranteed.

SVP6 Set of six drain plug sockets in special tray—VP10, VP12, VP14, VP16, VP18 and VP20.

*VP9 Special Use—Generator field screws on 1958 Ford products.

Hex Plug Wrenches

Tool No.	Size Plug	Drive
XP126*	3/8" Hex	3/8"
XP226	11/16" Hex	3/8"
VP126	3/8" Hex	1/2"
VP146	7/16" Hex	1/2"
VP166	1/2" Hex	1/2"
VP186	9/16" Hex	1/2"

NOTE: Special plug sockets for general use on cars; also used on some connecting rods.

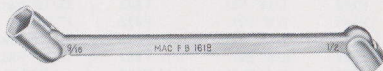
*XP126 used on 1958 Ford rear end drain.

1/2" Service Anchor Bolt Sockets For Hydraulic Brakes



Tool No.	Measurement Across Flats	I. D. Across Round Section	Service End
VA16	1/2"	3/4"	1/2"
VA18	9/16"	13/16"	1/2"

Flex Box Wrenches



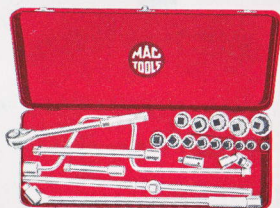
Tool No.	Size Opening	Length
6 Point		
FB1214	3/8" x 7/16"	8"
FB1618	1/2" x 9/16"	8"
	5/8" x 11/16"	10"
	5/8" x 3/4"	10"
	3/4" x 7/8"	12"

Special Use:

FB2024-2 Camber adjustment on 1958 Plymouth and Dodge cars.



**1/2" Service
MAC Socket Sets
With Attachments**



SV22

SV22 The MAC 22 piece standard socket set consists of 14 standard 12-point sockets ranging in size from 7/16" to 1-1/4" (in sixteenths) inclusive, and 8 attachments. All tools are forged from the finest alloy steel available for the purpose and the set has been designed to meet the exacting requirements of the professional mechanic. All sockets are forged with deep splines and thin walls. Tools as listed below are furnished in an attractive metal box in the popular red color.

Tool No.	Description	Tool No.	Description
V142	7/16" Skt.	V362	1-1/8" Skt.
V162	1/2" Skt.	V382	1-3/16" Skt.
V182	9/16" Skt.	V402	1-1/4" Skt.
V202	5/8" Skt.	V2E	2" Ext.
V222	11/16" Skt.	V5E	5" Ext.
V242	3/4" Skt.	V10E	10" Ext.
V262	13/16" Skt.	V18S	18" Spd. Hdl.
V282	7/8" Skt.	V18T	18" T. Hdl.
V302	15/16" Skt.	V18F	18" Flex Hdl.
V322	1" Skt.	V6R	Rev. Ratchet
V342	1-1/16" Skt.	V3US	Univ. Joint

SV26 Standard socket set as listed above with all sockets furnished in 6 point.

Standard socket sets as listed above can be ordered out with the Crescent Ratchet, Tool No. CS70X, replacing the V6R Ratchet as follows:

Set No.	Description
SV22C	Standard 22 piece socket set—12 point
SV26C	Standard 22 piece socket set—6 point

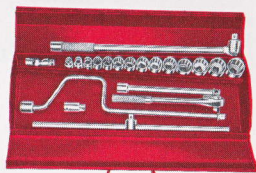
SV32 This set of 14 MAC Standard 12-point, 1/2" square drive consists of a durable and attractive metal carrying box with 14 sockets ranging in sizes from 7/16" to 1-1/4" inclusive, along with an 18" flex-handle as listed below:

Tool No.	Description	Tool No.	Description
V142	7/16" Skt.	V302	15/16" Skt.
V162	1/2" Skt.	V322	1" Skt.
V182	9/16" Skt.	V342	1-1/16" Skt.
V202	5/8" Skt.	V362	1-1/8" Skt.
V222	11/16" Skt.	V382	1-3/16" Skt.
V242	3/4" Skt.	V402	1-1/4" Skt.
V262	13/16" Skt.	V18F	18" Flex Hdl.
V282	7/8" Skt.		

SV36 Is furnished with 6-point sockets, otherwise it is identical with set No. SV32.

VB2 Metal box only.

**1/2" Service
MAC Socket Sets
With Attachments**



SV22A This 22 piece MAC Socket Set in the 1/2" square drive is the same as the MAC SV22 illustrated in Column 1 except that it is furnished in new style box as illustrated. A list of the 12-point sockets and extensions furnished in this set follows:

Tool No.	Description	Tool No.	Description
V142	7/16" Skt.	V362	1-1/8" Skt.
V162	1/2" Skt.	V382	1-3/16" Skt.
V182	9/16" Skt.	V402	1-1/4" Skt.
V202	5/8" Skt.	V2E	2" Ext.
V222	11/16" Skt.	V5E	5" Ext.
V242	3/4" Skt.	V10E	10" Ext.
V262	13/16" Skt.	V18S	18" Spd. Hdl.
V282	7/8" Skt.	V18T	18" T. Hdl.
V302	15/16" Skt.	V18F	18" Flex Hdl.
V322	1" Skt.	V6R	Rev. Ratchet
V342	1-1/16" Skt.	V3US	Univ. Joint

Special Note—The VB2A metal box as illustrated has hip roof design with half-hitch overlock cover and is furnished in the popular MAC red color.

SV26A This set is identical with SV22A except that it is furnished with 6-point sockets.

VB2A Metal box only.

Standard socket sets as listed above can be ordered out with the Crescent Ratchet, Tool No. CS70X, replacing the V6R Ratchet as follows:

Set No.	Description
SV22AC	Standard 22 piece socket set—12 point
SV26AC	Standard 22 piece socket set—6 point
VB2A	Metal box only

**1/2" Service
Sliding Bar T Handle**



Bar has center groove for spinning and friction ball for holding at any given point.

Tool No.	Stock Size	Length
V18T	9/16"	18"

Flex Handle Ratchet* and Attachments (*Patent Applied For)

The MAC VRF Flex Handle Ratchet is a new tool on which patent has been applied for. The tool with all necessary adaptors was originally designed to facilitate front end alignment on all cars. With the complete flexibility provided by this tool it is a TIME SAVER on most work done by the automobile mechanic. Adaptors are provided for using this ratchet with either the 1/2" drive or 3/8" drive sockets and attachments. Tools have all been made from the best alloy steel available and have been accurately machined to close tolerances to provide trouble free service.



Set No. SVF2-B
Flex Ratchet and Adaptors

Tool No.	Description	Points
VRF	Flex Handle Ratchet—7/8" Opening	12
VRS222	11/16" Socket Adaptor for VRF	12
VRS242	3/4" Socket Adaptor for VRF	12
VRS242	3/4" Short Socket Adaptor	12
VRS262	13/16" Short Skt. Adaptor	12
VRF-P	1/2" Drive Adaptor	—
VRF-P38	3/8" Drive Adaptor	—

Flex Ratchet Sets

SVF2-B	6 piece Flex Ratchet Set consisting of VRF, VRS222, VRS242, VRS242, VRS262, and VRF-P. Set is furnished in attractive metal box.
SVF2	Same Set as listed above in card board box.
VB4	Metal Box only for SVF2-B Set.

SPECIAL FEATURES—VRF RATCHET

1. Complete flexibility provided for work in close quarters.
2. Special adaptors provided for front end alignment.
3. 9/16" double hex opening for direct use on this popular size.
4. 1/2" square in handle for torquing purpose: is 12" from center of 9/16" opening.
5. Adaptors furnished for use with all MAC 1/2" drive and 3/8" drive sockets and extensions.

LIST OF SPECIAL USES—FRONT END ALIGNMENT

VRF FLEX RATCHET ONLY	
Buick	—1957 thru 1960
Cadillac	—1957 thru 1960
Oldsmobile	—1957 thru 1960
VRF RATCHET—VRS242 SOCKET	
Ford	—1954 thru 1961
Mercury	—1954-1958, 1961
Chrysler	—1957 thru 1961
Pontiac	—1958 thru 1961
Falcon	—1960 thru 1961
Comet	—1960 thru 1961
Dodge	—1959 thru 1961
Plymouth	—1959 thru 1961
VRF RATCHET—VRS262 SOCKET	
Dodge	—1957 and 1958
Plymouth	—1957 and 1958
DeSoto	Sportsman—1957 and 1958
VRF RATCHET—VRS262 SOCKET	
Buick	—1961
Oldsmobile	—1961
VRF RATCHET—VRS222 SOCKET	
Chevrolet	—1955 thru 1961

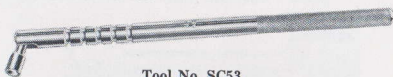
OTHER RECOMMENDED USES

VRF RATCHET—	VRF RATCHET—
VRF-P ADAPTOR and	VRS242 SOCKET
VD266 DEEP SOCKET	Shock Absorber Work on
Spark Plug Work—All Cars	Ford and Mercury

NOTE: See Page 30 for new XRF Flex Handle Ratchet used with 3/8" Drive Sockets and Attachments.

Valve Tool — Tubeless Tires

Special tool designed to facilitate pulling tubeless tire valves through the wheel rim to proper position. Flexible end is threaded to fit all valves.



Tool No. SC53
Tool No. SC53—Valve Tool, 11 1/2" Long

Brake Shoe Retaining Spring Tool COMPACT CARS

Special tool designed for use in removing or installing brake shoe retaining spring in most compact cars.



Tool No.	Description	Cars
SC54	Brake Spring Tool	Corvette 1961 Falcon 1961 Valiant 1961

Spreader Jack Front End Alignment

Special tool used as a jack to spread the ball joint suspension to facilitate the removal or installation of shims.



Tool No.	Description	Cars
SC58	Spreader Jack	Comet 1961 Falcon 1961

In use, the base of the jack is placed against the car frame while the curved end fits the ball joint. Use adjusting nut to apply sufficient pressure so that shims can be either removed or inserted.



**1/2" Service
Cylinder Head Bolt Socket**
Chevrolet 1955



Tool No.	Opening Size	Length
SC22	5/8"	3-3/8"

**1/2" Service
Special Sockets**



Tool No.	Description and Use
V296	29/32" socket for shackle bolts on Chrysler cars.
V406S	1-1/4" thin wall socket for drive shaft on light model IHC trucks. (Not guaranteed.)

Connecting Rod Sockets

(Not Guaranteed)



Tool No.	Size Opg.	Drive	Car
V146C	7/16"	1/2"	Cadillac
V166C	1/2"	1/2"	Chev. '55
V186F	9/16"	1/2"	Ford



Tool No. V124

**Special 4-point 3/8" Socket for
Nash and Kaiser brakes.**

**1/2" Service
Rocker Arm Nut Socket**
CHEVROLET 1956



Socket made with special alloy steel for use on rocker arm nuts on Chevrolet 1956 and 1957.

Tool No.	Size Opening	Drive
VI-186CR	9/16"	1/2"

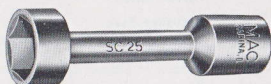


Tool No. SC43

Stop Light Switch Socket

Tool No. SC43—Special socket for stop light switch on most cars, including General Motors and Chrysler products for year 1958 and 1959.

**1/2" Service
Head Bolt Socket**
BUICK 1956



Tool No. SC25—Special Head Bolt Socket with 3/4" opening for late model Buick cars.

**1/2" Service
Chuck Adaptor**

Tool No. VI-20NF



For use in converting 1/2" drive impact wrench into a drill by using MAC C5B and C6B chucks or a Jacobs chuck tapped with 20 NF thread.



Oval Shaped Sockets



Tool No.	Size Opening		Drive
	Oval	Flat	
V16C	21/32"	1/2"	1/2"
V24B	1"	3/4"	1/2"
V24C	55/64"	3/4"	1/2"

Tool No. V24B

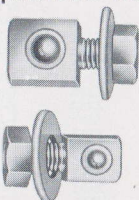
Special Use:

V24B Hood Hinge Bolt—Buick Cars

V24C Tail Gate Bolt—1958 Chev. Fleetside Truck

V16C Hydraulic Brake Cylinder Plug

Square Drive Plugs



Plugs are threaded and furnished with bolt, nut and washer for permanent installation on tool cabinets or display boards.

Tool No.	Description	Drive
XP	Square Drive Plug	3/8"
VP	Square Drive Plug	1/2"

Delco Distributor Tool

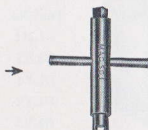


Tool No. SC4

Tool No. SC4—Designed to service Delco distributor head. One end fits the special circular slotted nut; the other end fits standard 11/32" hex nut. Distributor points can be adjusted or replaced in the shortest possible time.

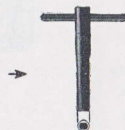
Instrument Panel Wrenches

Tool No.	Description
SC 1	Chevrolet Distributor Wrench; also instrument panel on Chrysler cars.
SC17	Ford light switch wrench.
SC18	Buick 50-53 instrument panel wrench.
SC19	Buick Windshield Wiper wrench.
SC24	Light Switch Wrench for 1955-56 Ford-Lincoln-Mercury.
SC45	Chevrolet '58 and '59 Distributor socket.
SC55	Ford Econo Van Truck—1961 light switch tool on inst. panel.



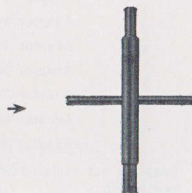
Carburetor Jet Wrench

Tool No.	Carburetor	Car
SC2	Stromberg	Ford
SC3	Stromberg	Other Cars



Trico Windshield Wiper Wrench

Tool No.
SC8—For all cars using Trico windshield wipers



Electric Oil Pressure Gauge Socket Chevrolet 1958



Tool No. SC40

Special socket designed for use on electric oil pressure gauge plug on Chevrolet 1958. Can also be used on Plymouth, DeSoto and other cars.

Tool No.	Opening Size	Drive
SC40	1-1/16"	1/2"



Drag Link Sockets

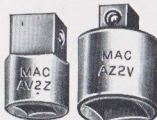


Tool No. DLV2

Tool No.	Width	Thickness	Drive
DLM1	1/4"	.040	1/4"
DLX1	11/16"	.125	3/8"
DLV1	3/4"	.109	1/2"
DLV2	1-3/16"	.150	1/2"
DLV3	15/16"	.150	1/2"
D LZ1	1-3/8"	.203	3/4"

Adaptors

For 3/8", 1/2", 3/4" and 1" Service



Tool No.	Description	
AM2X	Adaptor 1/4" Female	3/8" Male
AV2X	Adaptor 1/2" Female	3/8" Male
AV2Y	Adaptor 1/2" Female	5/8" Male
AV2Z	Adaptor 1/2" Female	3/4" Male
AW2Z	Adaptor 1" Female	3/4" Male
AX2M	Adaptor 3/8" Female	1/4" Male
AX2V	Adaptor 3/8" Female	1/2" Male
AY2V	Adaptor 5/8" Female	1/2" Male
AY2Z	Adaptor 5/8" Female	3/4" Male
AZ2V	Adaptor 3/4" Female	1/2" Male
AZ2W	Adaptor 3/4" Female	1" Male
AZ2Y	Adaptor 3/4" Female	5/8" Male

NOTE: Adaptors not replaced when square end has been twisted off.



SC30

3/4" Service Ball Joint Suspension Sockets

CHRYSLER PRODUCTS

Special sockets four point with rounded corners designed for use on the ball joint suspension on Chrysler products.

Tool No.	Size Opg.	Drive	Car
SC29	1-29/32"	3/4"	1957 Plymouth, Dodge & DeSoto Firesweep
SC30	2-1/8"	3/4"	1957 Chrysler, Imperial, DeSoto Firedome & Fireflite
SC52	1-25/32"	3/4"	1961 Chrysler Valiant

Heavy Duty Sockets

3/4" Service

HEAVY DUTY SOCKETS, as with all MAC sockets, are forged from extra tough alloy steel, chosen especially for its strength and wearing qualities.

Like all MAC sockets, our manufacturing process permits the decidedly deeper splines, the thinner side walls without the sacrifice of strength, features found only in MAC sockets.

3/4" Service

Standard Sockets

Tool No. 6-Point	Tool No. 12 Point	Opening Size	Length
Z246		3/4"	2"
Z266		13/16"	2"
	Z282	7/8"	2"
	Z302	15/16"	2-1/16"
	Z322	1"	2-1/8"
	Z342	1-1/16"	2-3/16"
	Z362	1-1/8"	2-5/16"
	Z382	1-3/16"	2-3/8"
	Z402	1-1/4"	2-7/16"
	Z422	1-5/16"	2-1/2"
	Z442	1-3/8"	2-5/8"
	Z462	1-7/16"	2-11/16"
	Z482	1-1/2"	2-3/4"
	Z502	1-9/16"	2-3/4"
	Z522	1-5/8"	2-13/16"
	Z542	1-11/16"	2-7/8"
	Z562	1-3/4"	3"
	Z582	1-13/16"	3-1/8"
	Z602	1-7/8"	3-3/16"
	Z642	2"	3-1/4"
	Z662	2-1/16"	3-1/4"
	Z682	2-1/8"	3-1/4"
	Z702	2-3/16"	3-1/4"
	Z722	2-1/4"	3-1/4"
	Z762	2-3/8"	3-1/4"



3/4" Service

Deep Sockets

Tool No.	Opening Size	Length
ZD286	7/8"	3-1/2"
ZD306	15/16"	3-1/2"
ZD326	1"	3-1/2"
ZD346	1-1/16"	3-1/2"
ZD366	1-1/8"	3-1/2"
ZD406	1-1/4"	3-1/2"
ZD426	1-5/16"	3-1/2"
ZD446	1-3/8"	3-1/2"
ZD466	1-7/16"	3-1/2"
ZD486	1-1/2"	3-1/2"
ZD526	1-5/8"	3-1/2"



SZD11—Complete set of eleven 3/4" drive deep sockets in metal tray.

ZT1 —Metal Tray Only.



3/4" Service Sliding Bar T Handle



Bar has center groove for spinning and friction ball for holding at any given point.

Tool No.	Stock Size	Length
Z20T	3/4"	20"



3/4" Service Universal Joint

Tool No. Z3U—MAC 3/4" Drive Universal Joint is assembled with Allen socket head set screws.

3/4" Service Standard Flex Handle



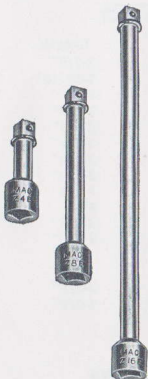
Tool No.	Stock Size	Length
Z20F	13/16"	20"
Z28F	13/16"	28"

3/4" Flex Handle Repair Head Only



Tool No. ZRH—Repair head only for 3/4" Flex handle

All new style MAC 3/4" flex handles are assembled with Allen socket head set screws. Replacement easily made in the field.



3/4" Service Socket Wrench Extensions

Tool No.	Length
Z2E	2"
Z3E	3"
Z4E	4"
Z8E	8"
Z16E	16"

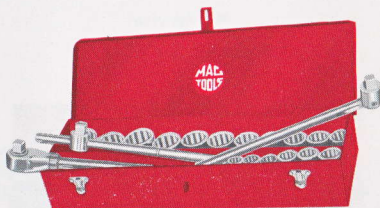
3/4" Service Reversible Ratchet



Tool No. Z2R

Tool No. Z2R—The MAC heavy duty ratchet has the same type mechanism as the 3/8" and 1/2" service ratchets. It is positive in action yet trouble free due to limited number of moving parts. Ratchet has 20-tooth mechanism and reversing is easily accomplished with one hand by use of trigger action reversing lever. Strength and serviceability incorporated in every part.

3/4" Service MAC Socket Sets With Attachments



DeLuxe Set SZ22

SZ22 This 23-piece MAC 3/4" square drive heavy duty socket set is designed for use on heavy trucks, tractors, buses, and diesels. The set comes in a strong attractive metal carrying box and consists of 17 sockets ranging in sizes from 7/8" to 2" inclusive together with 6 attachments, as listed below:

Tool No.	Description	Tool No.	Description
Z282	7/8" Skt.	Z542	1-11/16" Skt.
Z302	15/16" Skt.	Z562	1-3/4" Skt.
Z322	1" Skt.	Z582	1-13/16" Skt.
Z342	1-1/16" Skt.	Z602	1-7/8" Skt.
Z362	1-1/8" Skt.	Z642	2" Skt.
Z382	1-3/16" Skt.	Z4E	4" Extension
Z402	1-1/4" Skt.	Z8E	8" Extension
Z422	1-5/16" Skt.	Z16E	16" Extension
Z442	1-3/8" Skt.	Z20T	20" Tee Handle
Z462	1-7/16" Skt.	Z20F	20" Flex Handle
Z482	1-1/2" Skt.	Z2R	Rev. Ratchet
Z522	1-5/8" Skt.		
Z5B1	Metal Box Only		



¾" Service

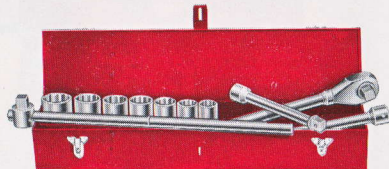
Standard Set SZ12

SZ12 This 18-piece set of MAC heavy duty ¾" square drive also is designed to make work easier for the mechanic who has to work on heavy trucks, buses, diesels and heavy equipment. Like the SZ22, it is furnished with a strong and attractive metal carrying box. The set consists of 14 sockets ranging from 1½" to 2" inclusive, together with 4 attachments as listed below:

Tool No.	Description	Tool No.	Description
Z342	1-1/16" Skt.	Z542	1-11/16" Skt.
Z362	1-1/8" Skt.	Z562	1-3/4" Skt.
Z382	1-3/16" Skt.	Z582	1-13/16" Skt.
Z402	1-1/4" Skt.	Z602	1-7/8" Skt.
Z422	1-5/16" Skt.	Z642	2" Skt.
Z442	1-3/8" Skt.	Z8E	8" Extension
Z462	1-7/16" Skt.	Z16E	16" Extension
Z482	1-1/2" Skt.	Z20T	20" Tee Handle
Z522	1-5/8" Skt.	Z2R	Rev. Ratchet

ZB1 Metal Box only.

¾" Service Regular Set SZ32



Regular Set SZ32

SZ32 Designed for heavy duty truck, tractor, or bus work, this set is reasonably priced and consists of an 11-piece assortment of ¾" Service tools that will handle most everyday work of this character. Packed in a Metal Box containing one each of the following:

Tool No.	Description	Tool No.	Description
Z342	1-1/16" Skt.	Z522	1-5/8" Skt.
Z362	1-1/8" Skt.	Z8E	8" Extension
Z402	1-1/4" Skt.	Z16E	16" Extension
Z442	1-3/8" Skt.	Z20T	Sliding T Handle
Z462	1-7/16" Skt.	Z2R	Ratchet
Z482	1-1/2" Skt.	ZB2	Metal Box

ZB2 Metal Box only.

Extra Heavy Duty Sockets

1" Service

MAC EXTRA HEAVY DUTY SOCKETS are forged from a special alloy steel, chosen for its strength and wearing qualities. Like all MAC sockets they have the deeper splines for clearance, and the thinner side walls, without sacrifice in strength. Light in weight, these **EXTRA HEAVY DUTY SOCKETS**, are truly the mechanics choice for extra heavy tough work.

1" Service Standard Sockets

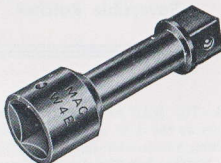


Tool No.	Size Opening	Length
W522	1-5/8"	2-7/8"
W542	1-11/16"	2-15/16"
W562	1-3/4"	3"
W582	1-13/16"	3-1/8"
W602	1-7/8"	3-1/4"
W642	2"	3-3/8"
W682	2-1/8"	3-1/2"
W702	2-3/16"	3-5/8"
W722	2-1/4"	3-3/4"
W762	2-3/8"	4"
W802	2-1/2"	4-1/8"
W842	2-5/8"	4-1/8"
W882	2-3/4"	4-1/4"
W942	2-15/16"	4-1/2"
W962	3"	4-1/2"
W1002	3-1/8"	4-5/8"

1" Service

SOCKET WRENCH EXTENSIONS

These two extensions used together or with other 1" Drive attachments make all the "hard to reach" places become easily accessible.



Tool No.	Stock Size	Length
W8E	1"	8"
W16E	1"	16"



1" Service Extension Handle

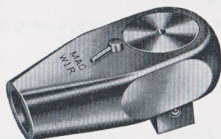


All MAC attachments in the 1" drive have been designed for use with this handle. This not only facilitates the work of the mechanic; it provides a complete set in the 1" Drive that is lighter in weight and cheaper in price.

Tool No. W30H Extension Handle only for use with the following attachments:

- W1R** Ratchet Head Only
- W30F** Flex Head Only
- W30T** Sliding T Bar Head Only

Ratchet Head Only



The MAC Extra Heavy Duty Ratchet has the same type of mechanism as the 1/2" and 3/4" Ratchet. Positive in action and trouble free. Reversing is accomplished by pushing lever on top of ratchet head. Reversing mechanism is enclosed in head of ratchet eliminating all obstructions to free use of ratchet.

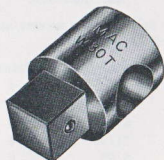
Tool No. W1R—Ratched Head Only. Extension Handle W30H illustrated above should be ordered also for complete unit.

Flex Head Only



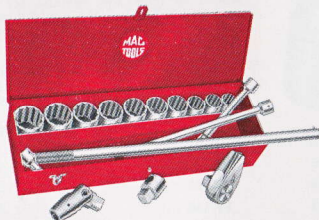
Tool No. W30F—Flex Head only in 1" Drive to be used with Extension Handle Tool No. W30H.

Sliding Bar T Head Only



Tool No. W30T—Sliding Bar T Head Only. To be used with Extension Handle Tool No. W30H.

1" Service Mac Extra Heavy Duty Socket Sets With Attachments



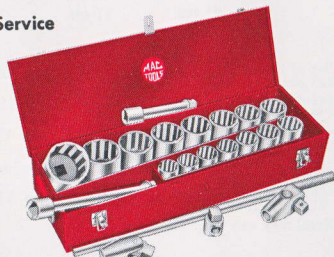
STANDARD SET SW12

SW12—This 16 piece MAC EXTRA HEAVY DUTY socket set will cover the general needs of the mechanic in the really tough jobs that require extra sturdy tools. Set includes 10 sockets ranging in sizes from 1-5/8" to 2-3/8" inclusive, together with 6 attachments in an attractive heavy gauge Metal Box.

Tool No.	Description	Tool No.	Description
W522	1-5/8" Skt.	W722	2-1/4" Skt.
W542	1-11/16" Skt.	W762	2-3/8" Skt.
W562	1-3/4" Skt.	W8E	8" Extension
W582	1-13/16" Skt.	W16E	16" Extension
W602	1-7/8" Skt.	W30H	Ext. Handle
W642	2" Skt.	W1R	Ratchet Head
W682	2-1/8" Skt.	W30F	Flex Head
W702	2-3/16" Skt.	W30T	Sliding T Bar Head

WB1—Metal Box Only

1" Service



DELUXE SET SW22

SW22—This DeLuxe 21 piece MAC EXTRA HEAVY DUTY Socket Set will cover practically all of the needs of the mechanic on those really tough jobs whether it be on trucks, buses and tractors; or in construction and industrial work. Set includes 15 sockets ranging in size from 1-5/8" to 3-1/8" inclusive, together with 6 attachments, in an attractive, heavy gauge metal box.

Tool No.	Description	Tool No.	Description
W522	1-5/8" Skt.	W802	2-1/2" Skt.
W542	1-11/16" Skt.	W842	2-5/8" Skt.
W562	1-3/4" Skt.	W882	2-3/4" Skt.
W582	1-13/16" Skt.	W942	2-15/16" Skt.
W602	1-7/8" Skt.	W1002	3-1/8" Skt.
W642	2" Skt.	W8E	8" Extension
W682	2-1/8" Skt.	W16E	16" Extension
W702	2-3/16" Skt.	W30H	Ext. Handle
W722	2-1/4" Skt.	W30F	Flex Head
W762	2-3/8" Skt.	W30T	Sliding T Bar Head
		W1R	Ratchet Head

WB2—Metal Box Only



Impact Sockets — Standard Length 3/8", 1/2", and 5/8" Service



3/8" Tool No.	1/2" Tool No.	5/8" Tool No.	Opening Size
XI-106			5/16"
XI-126	VI-126		3/8"
XI-146	VI-146		7/16"
XI-166	VI-166		1/2"
XI-186	VI-186	YI-186	9/16"
XI-206	VI-206	YI-206	5/8"
XI-226	VI-226	YI-226	11/16"
XI-246	VI-246	YI-246	3/4"
	VI-266	YI-266	13/16"
	VI-286	YI-286	7/8"
	VI-306	YI-306	15/16"
	VI-326	YI-326	1"
	VI-346	YI-346	1-1/16"
	VI-366	YI-366	1-1/8"
		YI-386	1-3/16"
	VI-406	YI-406	1-1/4"

SX7—Set of Seven 3/8" Drive Impact Sockets, XI-126 to XI-246 inclusive.

SV8—Set of Eight 1/2" Drive Impact Sockets, VI-146 to VI-286 inclusive.

SV8T—Set of eight impact sockets in metal tray: VI-146 to VI-286 inclusive.

SV13—Set of thirteen impact sockets VI-146 to VI-406 inclusive.

SY12—Set of twelve 5/8" Drive Impact Sockets YI-186 to YI-406 incl.

VT7—Metal tray only for SV8T.

Impact Sockets — Thin Wall 3/8" Service — Standard Length

MAC TOOL NO.	Size	O.D. Skt. End	Overall Length
6 Point	12 Point		
XT-86		1/4"	.366
XT-106		5/16"	.444
XT-126	XT-122	3/8"	.522
XT-146	XT-142	7/16"	.600
XT-166	XT-162	1/2"	.687
XT-186	XT-182	9/16"	.770
XT-206	XT-202	5/8"	.875
XT-226	XT-222	11/16"	.930
XT-246	XT-242	3/4"	1.000
XT-266	XT-262	13/16"	1.080
XT-286	XT-282	7/8"	1.150
XT-326	XT-322	1"	1.312
SXT2—Set of 10 Thin Wall Sockets, 12 point; XT122 to XT322 inclusive.			
SXT6—Set of 10 Thin Wall Sockets, 6 point; XT126 to XT326 inclusive.			

Impact Sockets — Medium Length 3/8" Service

6 Point Tool No.	12 Point Tool No.	Size Opening	Diameter Socket End	Length
XDJ-126		3/8"	9/16"	1-1/2"
XDJ-146		7/16"	21/32"	1-1/2"
XDJ-166	XDJ-162	1/2"	3/4"	1-1/2"
XDJ-186	XDJ-182	9/16"	13/16"	1-1/2"
XDJ-206		5/8"	29/32"	1-1/2"
XDJ-226		11/16"	1"	1-1/2"
XDJ-246		3/4"	1-1/16"	1-1/2"

Impact Sockets — Deep Length 3/8" Service

Tool No.	Size Opening	Diameter Socket End	Length
XDI-116	11/32"	17/32"	2"
XDI-126	3/8"	9/16"	2"
XDI-146	7/16"	21/32"	2"
XDI-166	1/2"	3/4"	2"
XDI-186	9/16"	13/16"	2"

Impact Sockets — Standard Length For Self Tapping Screws 3/8" Service

Special sockets for self tapping screws made from high alloy steel for extra hardness.

Tool No.	Opening Size	Points	Length
XH86	1/4"	6	7/8"
XH96	9/32"	6	7/8"
XH106	5/16"	6	7/8"
XH116	11/32"	6	7/8"
XH126	3/8"	6	7/8"
XH146	7/16"	6	7/8"
XH166	1/2"	6	7/8"

Impact Sockets — Standard Length For Self Tapping Screws 1/4" Service

Special Sockets for self tapping screws made from high alloy steel for extra hardness. Extra shallow broach.

Tool No.	Opening Size	Length
MH86	1/4"	7/8"
MH96	9/32"	7/8"
MH106	5/16"	7/8"
MH116	11/32"	7/8"
MH126	3/8"	7/8"
MH146	7/16"	7/8"
MH166	1/2"	7/8"



Impact Universal Sockets Ball Type — 3/8" Service



Tool No.	Opening Size	Tool No. XUI-186 Outside Diameter		Dr. End	Overall Length
		Skt. Body	Skt. End		
XUI-126	3/8"	13/16"	9/16"	3/4"	2-1/8"
XUI-146	7/16"	13/16"	21/32"	3/4"	2-1/8"
XUI-166	1/2"	13/16"	3/4"	3/4"	2-1/8"
XUI-186	9/16"	13/16"	13/16"	3/4"	2-1/8"
XUI-206	5/8"	13/16"	29/32"	3/4"	2-1/8"

Impact Universal Joints Ball Type — 3/8" Service



Tool No.	Outside Diameter	Overall Length	Type
X13U	13/16"	2-5/16"	Pin
X13UB	13/16"	2-5/16"	Ball

Impact Universal Joints With Coil Spring — 3/8" Service

Tool No.	Outside Diameter	Overall Length	Type Retainer
X4U	27/32"	2-15/16"	Pin
X4UB	27/32"	2-15/16"	Ball

Special Note: Coil Spring around Universal socket provides additional firmness for holding in any particular position to facilitate Spark Plug installation or removal. Tool also handy for general use.

Impact Extensions 3/8" Service

Tool No.	Description	Type Retainer
XI-3EP	3" Extension	Pin
XI-5EP	5" Extension	Pin
XI-8EP	8" Extension	Pin

Impact Sockets — Thin Wall 1/2" Service — Standard Length

MAC TOOL NO.		Size	O.D. Skt. End	Overall Length
6 Point	12 Point			
VT-126	VT-122	3/8"	.535	1-5/16"
VT-146	VT-142	7/16"	.625	1-5/16"
VT-166	VT-162	1/2"	.705	1-5/16"
VT-186	VT-182	9/16"	.786	1-5/16"
VT-206	VT-202	5/8"	.875	1-5/16"
VT-226	VT-222	11/16"	.962	1-5/16"
VT-246	VT-242	3/4"	1.050	1-1/2"
VT-266	VT-262	13/16"	1.109	1-5/8"
VT-286	VT-282	7/8"	1.188	1-5/8"
VT-306	VT-302	15/16"	1.269	1-11/16"
VT-326	VT-322	1"	1.349	1-11/16"
VT-346	VT-342	1-1/16"	1.430	1-3/4"
VT-366	VT-362	1-1/8"	1.526	2"
VT-386	VT-382	1-3/16"	1.603	2"
VT-406	VT-402	1-1/4"	1.681	2"
	VT-422	1-5/16"	1.750	2"

SVT2—Set of 15 Thin Wall Sockets, 12 point; VT122 to VT402 inclusive.

SVT6—Set of 15 Thin Wall Sockets, 6 point; VT126 to VT406 inclusive.

Impact Sockets — Deep Length 1/2" Service

Tool No.	Opening Size	Diameter Skt. End	Length
VDI-166	1/2"	25/32"	3-1/4"
VDI-186	9/16"	27/32"	3-1/4"
VDI-206	5/8"	15/16"	3-1/4"
VDI-226	11/16"	1-1/32"	3-1/4"
VDI-246	3/4"	1-1/8"	3-1/4"
VDI-266	13/16"	1-3/16"	3-1/4"
VDI-286	7/8"	1-1/4"	3-1/2"
VDI-306	15/16"	1-11/32"	3-1/2"
VDI-326	1"	1-7/16"	3-1/2"
VDI-346	1-1/16"	1-17/32"	3-1/2"
VDI-366	1-1/8"	1-5/8"	3-1/2"
VDI-406	1-1/4"	1-25/32"	3-1/2"

SDV12 Complete set of 12 1/2" deep Impact Sockets in box; VDI-166 to VDI-406 inclusive.

Impact Universal Joints Ball Type — 1/2" Service



Tool No.	Outside Diameter	Overall Length	Type
VI-3U	1-1/8"	2-13/16"	Pin
VI-3UB	1-1/8"	2-13/16"	Ball

* Universal Joint furnished with either the pin or ball for holding socket on extension.



Impact Universal Sockets Ball Type — ½" Service



Tool No. VUI-246

Tool No.	Opening Size	Outside Diameter Skt. Body	Skt. End	Dr. End	Overall Length
VUI-166	1/2"	1-1/8"	3/4"	15/16"	2-9/16"
VUI-166T	1/2"	15/16"	23/32"	15/16"	2-9/16"
VUI-186	9/16"	1-1/8"	13/16"	15/16"	2-9/16"
VUI-186T	9/16"	15/16"	25/32"	15/16"	2-9/16"
VUI-206	5/8"	1-1/8"	15/16"	15/16"	2-9/16"
VUI-206T	5/8"	15/16"	29/32"	15/16"	2-9/16"
VUI-226	11/16"	1-1/8"	1"	15/16"	2-9/16"
VUI-246	3/4"	1-1/8"	1-1/8"	15/16"	2-9/16"
VUI-266	13/16"	1-1/8"	1-1/4"	15/16"	2-9/16"
VUI-286	7/8"	1-1/8"	1-1/4"	15/16"	2-9/16"

T = Thin Wall.

Impact Extensions ½" Service

Tool No.	Description	Type Retainer
VI-2EP	2" Extension	Pin
VI-5EP	5" Extension	Pin
VI-10EP	10" Extension	Pin

Impact Extension Bars ½" Service



Extension bars designed for use with impact wrench. Each tool has ½" female square on one end and ⅜" male square on other end.

Tool No.	Description
VI-4EX	4" Extension Bar
VI-10EX	10" Extension Bar

Impact Sockets — Budd Wheels ¾" Service

Tool No.	Opening Size	# Points
ZI-264BW	13/16"	4 Pt.
ZI-306BW	15/16"	6 Pt.
ZI-486BW	1-1/2"	6 Pt.

Special impact sockets designed for use on Budd Wheels.

Impact Sockets — Heavy Duty — ¾" Service



Tool No. ZI-406

Opening Size	Diameter		Deep Socket		Standard Sockets	
	Socket End	Drive End	Tool No.	Overall Length	Tool No.	Overall Length
3/4"	1.240	1-1/2	ZDI-246	3-1/4"	ZI-246	2"
13/16"	1.360	1-1/2	ZDI-266	3-1/4"	ZI-266	2"
7/8"	1.425	1-5/8	ZDI-286	3-1/2"	ZI-286	2"
15/16"	1.475	1-5/8	ZDI-306	3-1/2"	ZI-306	2"
1"	1.625	1-5/8	ZDI-326	3-1/2"	ZI-326	2-1/8"
1-1/16"	1.680	1-5/8	ZDI-346	3-1/2"	ZI-346	2-3/16"
1-1/8"	1.750	1-5/8	ZDI-366	3-1/2"	ZI-366	2-1/4"
1-3/16"	1.860	1-5/8	ZDI-386	3-1/2"	ZI-386	2-5/16"
1-1/4"	1.925	1-11/16	ZDI-406	3-1/2"	ZI-406	2-3/8"
1-5/16"	2.000	1-11/16	ZDI-426	3-1/2"	ZI-426	2-7/16"
1-3/8"	2.062	1-3/4	ZDI-446	3-1/2"	ZI-446	2-1/2"
1-7/16"	2.187	1-3/4	ZDI-466	3-1/2"	ZI-466	2-9/16"
1-1/2"	2.250	1-3/4	ZDI-486	3-1/2"	ZI-486	2-5/8"

Locking Rings and Pins

Tool No.	Description	Dimensions	For Socket Sizes
ZO-12	Locking Ring	1-3/8" Dia.	3/4"-13/16"-7/8"
ZO-16	Locking Ring	1-1/2" Dia.	All other sizes
ZP-12	Locking Pin	3/16" x 1-3/8	3/4"-13/16"-7/8"
ZP-16	Locking Pin	3/16" x 1-1/2	All other sizes

Impact Socket Sets

SZI-13 —13 pc. Standard Impact Socket Set—ZI-246 to ZI-486 incl.

SZDI-13—13 pc. Deep Impact Socket Set—ZDI-246 to ZDI-486 incl.

Impact Sockets — Standard Length 1" Service

Tool No.	Opening Size	Points	Length
WI-264*	13/16"	4	2-5/16"
WI-286	7/8"	6	2-5/16"
WI-306*	15/16"	6	2-5/16"
WI-346*	1-1/16"	6	2-3/8"
WI-366	1-1/8"	6	2-3/8"
WI-426	1-5/16"	6	2-9/16"
WI-486*	1-1/2"	6	2-3/4"







* Sockets used on Budd Wheels.

SPECIAL NOTICE:

Impact sockets or extensions are not guaranteed against breakage or wear but are guaranteed against defects in material or workmanship. Industrial users are invited to write for complete specifications on any impact tool listed on these pages.















Mechanic's Pliers

Order No.	Description	
		HP-8 Hose Clamp or Hog-Ring Plier 7½"
		P-2 Midget General Purpose Plier 4½"
		P-3 Ignition Plier — 3-position slip joint 4½"
		P-6-C Curved Needle Nose Plier 5½"
		P-6-L Slip Joint Plier 6"
		P-7 Slip Joint Plier with Side Cutter 7"

"Little Champ" Pliers



Number	Type	Length
No. 41	Diagonal	4½"
No. 42	End Cutter	4½"
No. 43	Long Nose	4½"
No. 44	Flat Nose	4½"
No. 45	Round Nose	4½"
No. 45CS	Set in Case	4½"

Order No.	Description	
		P-11 Lap Joint Diagonal Cutting Plier 7"
		P-12 Duck Bill Plier with high leverage 8"
		P-13 Long Chain Nose Plier 7"
		P-15 Battery Plier 7½"
		P-16 Battery Plier 7"
		P-17 Long Needle Nose Plier with Side Cutters 6½"
		P-20 Horse Shoe Lock Ring Plier 9"
	Slip Joint — Narrow Head General Purpose Pliers	
P-25		5"
P-26		6"
P-28		8"
P-30		10"
		P-35 Snap Ring Remover. Jaws spread in a parallel plane 10"
		P100 Large Pump-Type Pliers 14"
		440G Channel Lock Pump Plier with Grips 12"
		P-130 Hog-Ring Plier 6½"
		P-819 Hog-Ring and Spring Plier, 45° Offset Head 6¾"

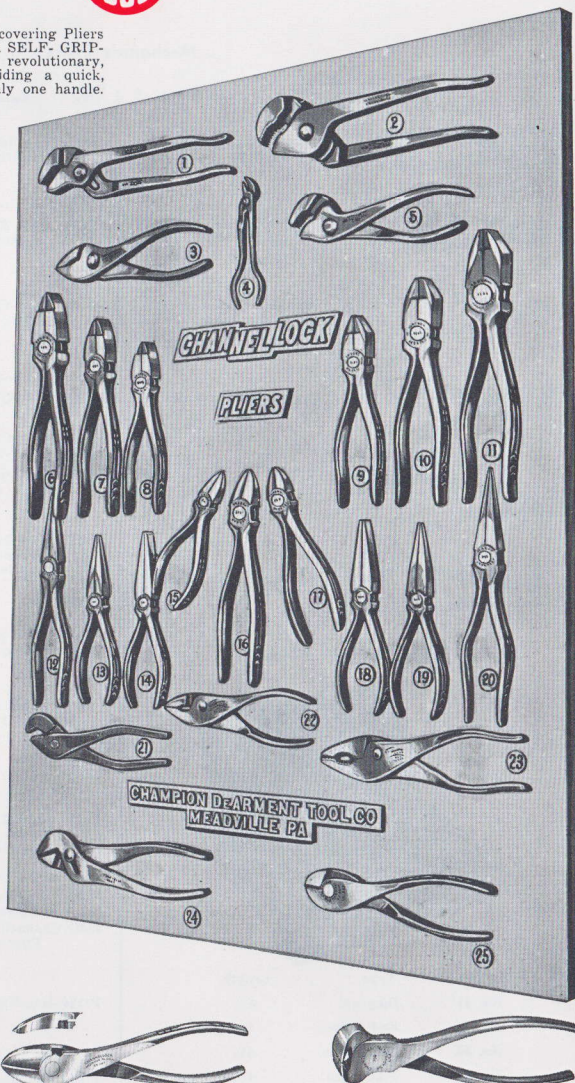
Channellock Pliers

As shown below, Plate No.'s 1, 2, 3, 4, and 5, covering Pliers 420, 410, 417, 424 and 407 are CHANNELLOCK SELF-GRIP-PING PLIERS which incorporate the new revolutionary, powerful gripping, Channellock design providing a quick, positive grip when pressure is applied to only one handle. The greater the pressure, the tighter the grip. The exclusive tongue and groove Channellock joint makes a plier far superior to the conventional type of ADJUSTABLE plier.

The balance of the Channellock pliers shown are Standard Pattern Pliers which do not have the patented tongue and groove Channellock joint.

Plate Order

No.	No.	Description	Length
1	415	Smooth Jaw Plier	9 1/2"
1	420	Pump Pliers	9 1/2"
1	426	Pump Pliers	6 1/2"
1	430	Pump Plier	11"
2	410	Gripping Pliers	9 1/2"
3	417	General Utility Pliers	7"
4	424	Ignition Pliers	4 1/2"
5	407	Gripping Pliers	7"
6	318 1/2	Linemen's Pliers— Rounded Nose	8 1/2"
7	347	Linemen's Pliers— Rounded Nose	7"
8	346	Linemen's Pliers— Rounded Nose	6"
9	3046	Linemen's Pliers— Bevel Nose	6"
10	3047	Linemen's Pliers— Bevel Nose	7"
11	3048 1/2	Linemen's Pliers— Bevel Nose	8 1/2"
12	317 1/2	Long Needle-nose Pliers with Side-cutter	7 1/2"
13	326	Needle-nose Pliers with Side-cutter	6"
14	366	Flat-nose Pliers with Side-cutter	6"
15	435	Diagonal Cutting Pliers —Box Joint	5"
16	437	Diagonal Cutting Pliers —Box Joint	7"
17	436	Diagonal Cutting Pliers —Box Joint	6"
18	3066	Flat-Nose Pliers without Side-cutter	6"
19	3026	Needle-nose Pliers with- out Side-cutters	6"
20	3017 1/2	Long Needle-nose Pliers without Side-cutter	7 1/2"
21	307	Battery Pliers— Lap Joint	7"
22	516	Slip-Joint Pliers— Thin Nose	6"
23	537	Slip-Joint Pliers with Side-cutter	7"
24	568	Angle Nose Pliers Slip-Joint	8"
25	337	Diagonal Cutting Pliers—Lap Joint	7"
26	3078	Long Reach Needle-nose	8"
27	447	Curved Diagonal Cutting Pliers	7"
28	356	End Cutter	6"
	546	Slip Joint	6"
	548	Slip Joint	8"
	5410	Slip Joint	10"





Now, ALL VISE-GRIP Tools Equipped with New EASY Release!

Vise-Grip Toggle Wrench

VISe-GRIP's "Double-Lever" action enables the grip of one hand to lock the quickly-adjusted jaws with more than TON pressure. Jaws remain locked to the work, with hands removed, often eliminating the need for a helper. Holds anything, any shape, without slipping.

VISe-GRIP is actually a portable vise, clamp, adjustable end-wrench, pipe-wrench, super-plier, locking-wrench and toggle-press—all in one light, trim, handy tool. The powerful locked grip was invented and developed exclusively by VISe-GRIP engineers.



World's Most Powerful and Most Useful Hand Tool

No.	Length	Jaw Adjustment	Weight
V-7R	7"	Up to 1 1/4"	12 oz.
V-10R	10"	Up to 1 1/2"	19 oz.

Vise-Grip Toggle Wrenches

These great new VISe-GRIPs provide versatility never before achieved in any hand tools. They provide a range of jaw openings never thought possible in tools of these handy sizes. The 10" size will open wider than an ordinary 15" adjustable end wrench. The 7" size

will open wider than an ordinary 12" adjustable end wrench. Both 10" and 7" sizes are available with or without wire cutter. The new Vise-Grip Toggle-Wrench is actually all these: 1. Adjustable End Wrench. 2. Super Pipe Wrench. 3. Thin-Nose Super Plier. 4. Clamp. 5. Portable Toggle Press. 6. Locking Wrench. 7. Vise. 8. Wire Cutter. 9. Bolt Cutter.

No.	Size	Jaw Thick.	Jaw Adjust't	Weight
V-7CR —Without Wire Cutter	7"	1/4"	1 1/4"	10 oz.
V-7WR —With Wire Cutter	7"	1/4"	1 1/4"	10 oz.
V-10CR —Without Wire Cutter	10"	3/8"	1 1/2"	1 lb. 4 oz.
V-10WR —With Wire Cutter	10"	3/8"	1 1/2"	1 lb. 4 oz.

Vise-Grip Sheet Metal Tool

LOCKS to the work with powerful grip. Material cannot slip, giving a smoother, more accurate bending and shaping job. Eliminates tiresome hand-gripping.

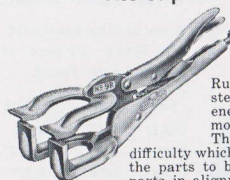
Where a Locked Grip is not required, merely tighten the end-screw so the jaws give non-locking Plier Action.

Does all kinds of bending, forming and crimping, locks templates to blank sheets, holds sheet metal strips for welding, works inside stacks, bends lead strips, etc.



No.	Length	Jaw Width	Throat Depth	Wt. Each	Wt. Doz.
No. V-8R	8"	3 1/4"	1 1/4"	18 oz.	15 lb.

Vise-Grip Welding Clamp

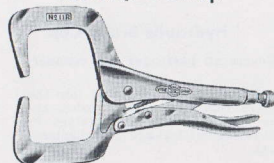


This handy tool leaves both hands free for welding work. Every Welder needs this clamp.

Ruggedly built of special alloy steels and scientifically hardened and tempered for the utmost in strength and durability. This special tool overcomes a difficulty which faces every welder—aligning the parts to be welded—and holding these parts in alignment, so both hands are free for the welding work. Thousands of welders have sought such a tool—VISe-GRIP has produced it by combining their famous locking-toggle-wrench with jaws specially designed for the needs of the welder.

No.	Length	Jaw Adjustment	Shipping Weight
V-9R	9"	Up to 1 1/4"	2 lbs.

Vise-Grip C-Clamp



ALL-PURPOSE CLAMP! All the proved features of the famous VISe-GRIP Wrench. Clamps on I-beams, angle iron, and other awkward and hard-to-reach jobs. Position the work with one hand while applying the clamp with the other. When clamped to the work, both hands are free to do a better job.

No. V-11R

Pipe Wrenches



No.	Length	No.	Length
PW-6	6"	PW-14	14"
PW-8	8"	PW-18	18"
PW-10	10"	PW-24	24"
PW-12	12"		

Movable jaws also stocked

Adjustable Wrenches



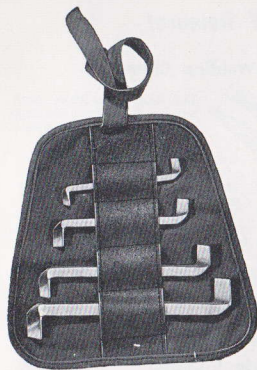
PLATED BLACK

No.	No.	Length
AJ-4	AJB-4	4"
AJ-6	AJB-6	6"
AJ-8	AJB-8	8"
AJ-10	AJB-10	10"

PLATED BLACK

No.	No.	Length
AJ-12	AJB-12	12"
AJ-15	AJB-15	15"
AJ-18	AJB-18	18"
AJ-24	AJB-24	24"

Jaws, Rollers and Screws Stocked



Offset Screw Drivers

A set of high quality Offset Screw Drivers of proven design. Plated.

No.	Stock	Length
OD-1	3/16"	4"
OD-2	1/4"	4-1/2"
OD-3	5/16"	5-1/2"
OD-4	3/8"	6-1/2"

No. ODS Kit Complete
(Not Replaceable)

Hydraulic Brake Clip

Universal. Covers all passenger and commercial cars.

Squeeze the clip and let it come back into the Cylinder, before removing shoe. Tension applied by the clip will keep the pistons in position, preventing oil leakage and displacement of parts.

No. BC-5



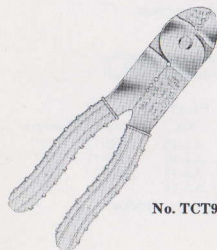
"Superior" Plastic Grips for Pliers

We have available plastic grips for our Pliers. Made of tough, durable plastic material. Easy to install, full instructions with each pair. Plier loss reduced as light blue color makes pliers easy to locate. Gives maximum handle-grip comfort.



No. PG-6 For 6" Pliers
No. PG-8 For 8" Pliers

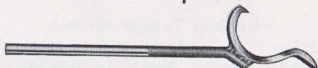
Terminal Crimper and Wire Cutter



Made of selected high-grade steel, scientifically hardened to its highest degree — fills all your wiring needs from 22 ga. to 10 ga. Butyrate handles withstand 4000 volts. It cuts, and strips wire from 22 ga. to 10 ga. Crimps terminals from 22 ga. to 10 ga. and has a built-in nest for crimping ignition terminals.

No. TCT9 Wire Crimping & Cutting Tool.

Grease Retainer Cup And Hub Cap Puller



An approved tool that will practically eliminate marring finish on wheels when removing large wheel-discs. Will do away with destruction of cups when used for removal as well as in replacing the cups. The main feature of the tool is that of gripping Retainer Cups when removing them, eliminating the trouble and time lost that is usual when makeshift tools are used.

No. GRP-25

Grease Retainer Puller

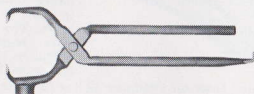


Hinged end is designed so as to grab firmly front wheel grease caps which are deeply recessed. Opposite curved handle end prys off all outer hub caps. 15" overall length.

No.

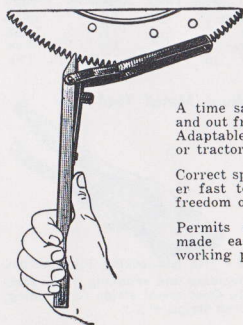
GRT-1 Grease Retainer Puller

Hub and Dust Cap Plier



Removes all types of hub caps, as well as removes and replaces most stubborn dust caps. The plier jaw bites the dust cap with a firm grip. Hammer aids in replacing cap to original position.

No. DC216 Hub and Dust Cap Plier



Flywheel Turner

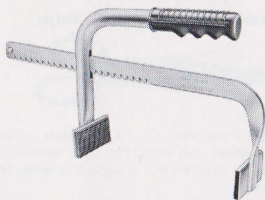
A time saver, eliminates crawling in and out from under car to turn motor. Adaptable to any make car, truck, bus or tractor.

Correct spring tension holds the turner fast to flywheel giving mechanic freedom of both hands.

Permits desired adjustments to be made easily from the mechanic's working position under the car.

No.
FT-12 Flywheel Turner
FT-12S Spanner Only

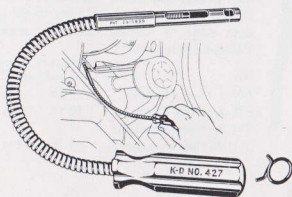
Battery Handler



This handler has locking positive action leverage. Lifts by the battery case, eliminating possible damage to terminal post. Slip proof, it prevents dropping of battery. Handy grip for easy carrying.

No. BL1 Battery Handler

Flexible Shaft Hose Clamp Tool



Overall length 14 3/4", rustproofed
Cable 11" long. Plastic Handle.

Makes these jobs easier than ever. No kink, "memory" Cable reaches into tight places, inaccessible to pliers type tools. Easy turns of Handle operates a screw within the sleeve on end of Cable, compressing clamp. All sizes of clamps securely held for removal or replacement. Fast acting.

No. KD427 Hose Clamp Tool

Twin Lead Jumper Set



Makes possible jumping any part of the electrical system. Saves costly time wasted in trying to find hidden trouble. Every mechanic needs this set. Packaged 8 sets per card.

No. JK-3 Jumper Set

Point Files



No. PF-5 Double Cut 5" Point File.

Voltage Regulator Files



No. PF-8 Auto-Lite Regulator File.



No. PF-10 Double Cut 5-1/2" Universal Regulator File.

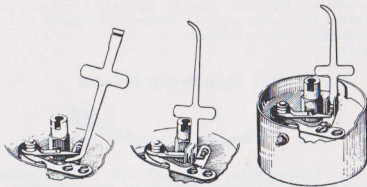


No. PF-15 Double Cut Delco-Remy Spoon File. (Riffler type.)

Contact Point Aligner

This tool is designed to fit and move all stationary points in all directions for correct point alignment.

Slots in one end can be applied to high speed contact arms. Opposite end of tool is lever designed so that stationary point can be moved in a lateral direction. (Not Replaceable)



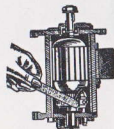
No. PA-40

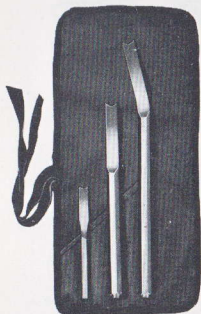
Flexstone

"GETS to the POINT"

Can be bent or twisted and won't break. You can use it in awkward corners where you can't get with a steel "point file." Will not short circuit.

No.
FS-1—Length 4 1/2"
FS-2—Length 4 1/2", .025" Thick.



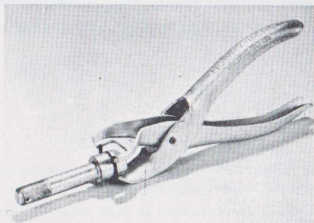


Bushing and Panel Cutting Set

- No.
CT-1 Small Bushing & Panel Cutter $\frac{1}{4}$ " x $\frac{3}{4}$ "
CT-2 Medium Bushing & Panel Cutter $\frac{1}{2}$ " x $1\frac{1}{4}$ "
CT-3 Offset Bushing & Panel Cutter $\frac{1}{2}$ " x 10"

No. CT-3S—Set Complete

Anchor Pin "C" Washer Plier



Rugged Pressed Steel; sound in design; serviceable in construction, and case hardened for long service life when used for the purpose for which intended. Quickly removes a stuck "C" Washer with only one tool. Makes fast repairs to Lock-head hydraulic brake systems.

No. BP-5

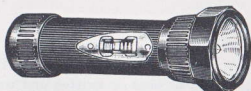
One Man Brake Bleeder



This brake bleeder saves labor and time. Comes equipped with universal attachment. Simple to use instructions included with each tool.

No. BB10 Brake Bleeder

Rubber-Cushioned Flashlight



Has full floating reflector, non-breakable lens, no-roll head. Specifically designed for the automotive mechanic.

No. FL512 Flashlight

Combination Circle Pattern Tinner's Snips



Solid drop forged from special analysis high carbon steel. Machine hollow ground and carefully heat treated. Adapted for cutting straight, circular and irregular shapes, scrolls or intricate patterns.

No.	Length
TS- 7C	7"
TS-12C	12"

Wiss Snips

One of the outstanding new developments in design and construction. Compound leverage produces amazing cutting power with minimum effort. Readily cuts circles, squares or any pattern however intricate, from Stainless, Dural, and Monel metals up to 20 gauge. Also cuts ends of tubing, exhaust manifolds, etc. Packed individually.

No.	Overall Length	Weight
	Length of Cut	Ea.
SM-1 (Cuts Left)	10 in. $1\frac{3}{8}$ "	12 ozs.
SM-2 (Cuts Right)	10 in. $1\frac{3}{8}$ "	12 ozs.
SM-3 (Cuts Straight & Combination)	10 in. $1\frac{3}{8}$ "	12 ozs.



Heavy-Duty Snips

A moderately priced solid steel combination pattern Bulldog Snip for heavy duty work. Will cut curves and irregular shapes in the heavier metals. Short, powerful, tempered jaws — long handles provide extra leverage.

No.	Overall Length	Length of Cut	Wt. Each
SMA-16	16 in.	3 in.	$3\frac{3}{4}$ lbs

Packed in individual boxes

Brake Spring Compressor



A TIME and TEMPER saver. Fits both flat and regular type brake cups. Eliminates cut fingers and loss of time removing brake cups. A push and a turn and the cup and spring are released or fastened.

No.
BC45



Ezy-Out Screw Extractors



Insure your shop with these screw extractors, a necessary tool to eliminate those headaches on stubborn deeply embedded screws. (Not replaceable).

These are available in the following sizes:

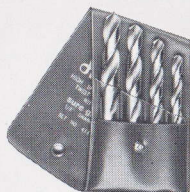
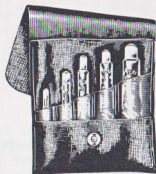
	Small Diam.	Large Diam.	Length
EO-1	.054	5/32"	2"
EO-2	.080	3/16"	2-3/8"
EO-3	1/8"	1/4"	2-11/16"
EO-4	3/16"	21/64"	2-7/8"
EO-5	1/4"	7/16"	3"
EO-6	3/8"	19/32"	3-1/2"

Ezy-Out Screw Extractor (sets)

The No. EO35P set includes the following numbers and sizes. Contained in a plastic pouch.

EO-1	.054" to 5/32"
EO-2	.080" to 3/16"
EO-3	1/8" to 1/4"
EO-4	3/16" to 21/64"
EO-5	1/4" to 7/16"

No. EO35P Set.



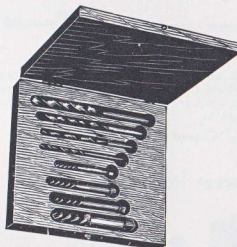
No.	
SHD20	1/8" 1/4" Shank Drill
SHD24	1/8" 1/4" Shank Drill
SHD28	1/8" 1/4" Shank Drill
SHD32	1/8" 1/4" Shank Drill
SHD414	Set of 4 above — In plastic kit.



1/2" Shank—High Speed Drills

HD34	17/32" 1/2" Shank Drill
HD36	9/16" 1/2" Shank Drill
HD40	5/8" 1/2" Shank Drill
HD44	11/16" 1/2" Shank Drill
HD48	3/4" 1/2" Shank Drill
HDS60	1/2" Spotlight Drill (20" Length)

Ezy-Out Screw Extractor (sets)



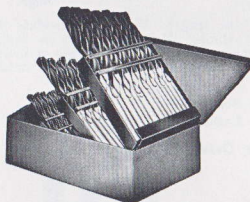
The No. EO25 set consists of the following numbers and sizes, packed in smooth varnished box.

This set includes an individual drill with each Ezy-OUT. Totals, 4 Ezy-Outs and 4 drills. A complete set.

EO-2	.080" to 3/16"
EO-3	1/8" to 1/4"
EO-4	3/16" to 21/64"
EO-5	1/4" to 7/16"

No. EO 25 Set

Drill Sets (High-Speed) Straight Shanks (Not Replaceable)



DM-1	29 Drills 1/16" to 1/2" by 64ths
DM-3	13 Drills 1/16" to 1/4" by 64ths
DM-15	15 Drills 1/16" to 1/2" by 32nds

(All Sets in Metal Cases)

DM-113	13 Drills 1/16" to 1/4" by 64ths (In Plastic Case)
--------	--

1/4" Shank Hi-Speed Drill Bits (Mechanic's Length)

Here is a quality set of drill bits, with 1/4" shanks for use with 1/4" electric drills. Four drill bits, sizes 1/8", 3/16", 1/4" and 1/2". (Not Replaceable)

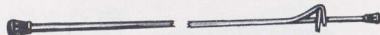
Individual Drills

No.	Drill Size Inches	Dec. Equiv. Inches	No.	Drill Size Inches	Dec. Equiv. Inches
HD4	1/16	.0625	HD19	19/64	.2969
HD5	5/64	.0781	HD20	5/16	.3125
HD6	3/32	.0937	HD21	21/64	.3281
HD7	7/64	.1094	HD22	11/32	.3437
HD8	1/8	.1250	HD23	23/64	.3594
HD9	9/64	.1406	HD24	3/8	.3750
HD10	5/32	.1562	HD25	25/64	.3906
HD11	11/64	.1719	HD26	13/32	.4062
HD12	3/16	.1875	HD27	27/64	.4219
HD13	13/64	.2031	HD28	7/16	.4375
HD14	7/32	.2187	HD29	29/64	.4531
HD15	15/64	.2344	HD30	15/32	.4687
HD16	1/4	.2500	HD31	31/64	.4844
HD17	17/64	.2656	HD32	1/2	.5000
HD18	9/32	.2812			

METAL DRILL INDEX ONLY

No. DM-1B	For Drills 1/16" to 1/2"
No. DM-3B	For Drills 1/16" to 1/4"
No. DM-15B	For Drills 1/16" to 1/2"

Hood Jack

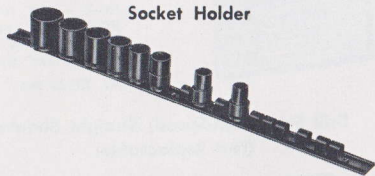


As the above illustration shows this is the up-to-the-minute tool for holding hoods. Being telescope type, pull inside shaft to length desired, as tool then locks at this point. To release simply squeeze holding point.

HJ-1 Length from 26½" Closed to 52" Open

No. PJ-1 Pedal Jack

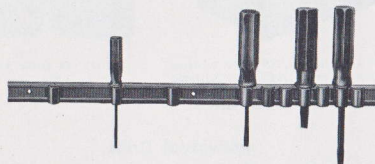
Socket Holder



Socket holders are 18" in length. Will accommodate 16 sockets, with adjustable sliding. Mounting holes in heavy steel base permit fastening rack to wall, work bench or inside standard size tool box. Available in 2 sizes. Cadmium finish.

No.
SH-38 For ⅜" Service Socket
SH-50 For ½" Service Socket

Screw Driver Holder



Holder accommodates 10 screw drivers. Adjustable, sliding, spring steel holders. Mounting holes in base to permit fastening to wall, work bench, or tool box. Cadmium finish.

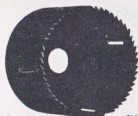
No.
SH-75

Brake Cylinder Honer



New and revolutionary brake cylinder honer. Reconditions brake cylinders of all sizes. Self-adjusting and self-aligning. It gives a perfect and true polished surface in a minimum of time and effort. Easily used with any electric or hand drill. Abrasives are renewable and easily changed. It will clean out Ford V-8 valve guide port holes.

No.
BC-103 —Brake Cylinder Honer
BC-103G—Honer Grits (Package of 30)



High Speed Hole Saws

The High Speed Steel Teeth with chrome-vanadium blade have great strength, cutting ability and long life. Depth 1½".

Hole Saws Only (Without Arbors)

No.	RC 375	Size
No. RC 377	⅝" dia.	
No. RC 378	¾" dia.	
No. RC 378A	1" dia.	
No. RC 379	1½" dia.	
No. RC 379A	1½" dia.	
No. RC 380	1½" dia.	
No. RC 381	1½" dia.	
No. RC 382	1½" dia.	
No. RC 383	1½" dia.	
No. RC 384	1½" dia.	
No. RC 385	1½" dia.	
No. RC 387	2" dia.	
No. RC 389	2¼" dia.	
No. RC 390	2½" dia.	
No. RC 391	2½" dia.	
No. RC 392	2½" dia.	
No. RC 393	2½" dia.	
No. RC 395	3" dia.	
No. RC 402	3½" dia.	
No. RC 404	3½" dia.	
No. RC 413	4½" dia.	
No. RC 415	4" dia.	
No. RC 433	5" dia.	

Arbor to Use

No. RC351 with
¼" Elec. Drill

Use
No. RC353 with
½" Elec. Drill

(Not Replaceable)



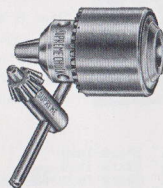
No.
RC351A Pilot Drill only for No. 351 Arbor.

No. RC351 — Arbor for hole saws, ⅝" to 1½", inclusive. Used with ¼" and larger electric drills.



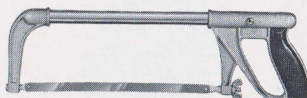
No. RC353—Arbor with pilot drill for hole saws 1¼" and over.

Drill Chucks and Keys



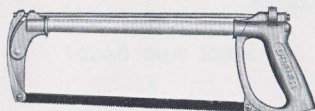
No.	Capacity	Threaded or Tapered Back	Extra Keys
C1A	0—¼"	¾"—24	CK1
C4A	0—¼"	¾"—24	CK4
C5B	5/64"—½"	½"—20	CK5
C6B	0—½"	½"—20	CK6
C13A	0—¾"	¾"—24	CK13
CKH-1	Rubber Chuck Key Holder.		

Tubular Hack Saws



MODERN TUBULAR FRAME—Untwistable frame is a straight piece of hard-drawn steel tubing between two rigid aluminum die castings. This simple, rugged design positively insures permanent alignment, also provides non-slip front grip plastic handles.

No. HS-25 Adjustable Tubular Hacksaw—10" or 12" Blade



STORAGE CHAMBER

CUTS RIGHT THRU TO A SURFACE

CUTS FLAT AGAINST A SURFACE

COMPACTNESS

HIGHER BLADE TENSION

DIE-CAST ALUMINUM, lighter yet stronger

NEW FRONT GRIP. Hack sawing is essentially a two-handed operation. The Challenger is the only hack saw that provides a solid, comfortable front-end grip.

No.

HS-30—Deluxe Tubular Hacksaw.

Adjustable Low-Back Hack Saw



This is an all steel saw. Can be used as a straight back or a tapered back due to the fact that it is adjustable at the handle.

No. HS-50 Adjustable Low-Back Hacksaw

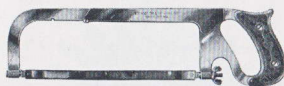
Jab Saw



This saw "gets in" where no other saw can. Has patented clamping action, holds blade in any position, uses any standard hacksaw blade, will cut absolutely flush.

No. HS45 Jab Saw

De Luxe Hack Saw Frame



Good, rigid construction with perfect balance reduces possibility of blade "whip" breakage and makes this hack saw easy to work with. The handle and rear portion are a one-piece design with hand aperture large enough for ample knuckle clearance. Red pyralin hand grips give a firm hold and stand out in attractive contrast to the full-plated and highly polished frame.

The handle is underslung and designed so power is delivered along the line of the blade . . . resulting in easier, faster cutting. Accommodates all standard blades.

No.

HS-4—Standard Hack Saw Frame.

HS-5—De Luxe Hack Saw Frame.

Standard Hack Saw Blades



Made by special process from finest tungsten steel assuring tough, uniform temper and degree of hardness throughout the blade . . . They cut faster, easier, and retain their cutting power longer. Blades are the result of many years' experience in blade manufacture and of the highest possible quality.

No.	Length	
HS-6—Junior Blades—	6" Length	(Pkg. of 10)
HS-10	10"—24 Point	(Pkg. of 10)
HS-12	12"—24 Point	(Pkg. of 10)

High Speed Blades

In hand frame or power machine, the High Speed Blade will deliver maximum cutting service, on any material, at higher speeds, without danger of shattering. Every user of hack saw blades can profit by elimination of breakage, the saving in time, the faster cutting speeds, and reduction of accidents made possible by this remarkable blade.

No.	Length	
HS-10H	10"—24 Point	(Pkg. of 10)
HS-12H	12"—24 Point	(Pkg. of 10)
HS-10H-2	10"—32 Point	(Pkg. of 10)
HS-12H-2	12"—32 Point	(Pkg. of 10)

Junior Hack Saws



Tapered Back



Straight Back

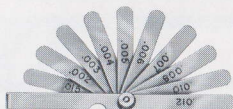
These hack saw frames are the ideal bushing and tubing saw for extremely hard to reach places. Equipped with a standard 6-inch fine-tooth pin type blade—cuts smoothly—removes very little stock. Easy grip—non-slip, screw type handle adjusts blade tension. Plated and Rustproofed.

No.

HS-1—Tapered Back

HS-2—Straight Back

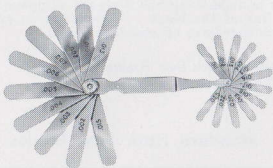
STANDARD FEELER GAUGE



Contains ten $3\frac{1}{8}$ " x $\frac{1}{4}$ " blades of the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012 and .015.

No. FG-1

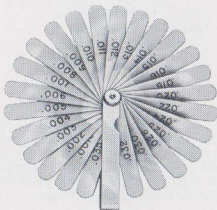
COMBINATION GAUGE



Contains ten 3" x $\frac{1}{2}$ " blades on one end of the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .013, .015; and twelve $1\frac{1}{4}$ " x $\frac{1}{4}$ " blades on the other end, of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022 and .025.

No. FG-2

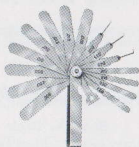
UNIVERSAL MASTER GAUGE



Contains twenty-five $3\frac{1}{8}$ " x $\frac{1}{2}$ " blades of the following thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032 and .035.

No. FG-3

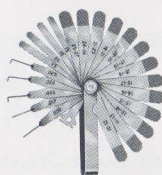
CHEVROLET GAUGE



Contains eight $3\frac{1}{8}$ " x $\frac{1}{2}$ " regular blades in the following sizes: .006, .007, .008, .010, .012, .013, .015, .020. Four $3\frac{1}{8}$ " x $\frac{1}{4}$ " Ignition Blades: .016, .018, .020, .022. Three 90° offset wire blades: .032, .035, .040. One electrode bending tool.

No. FG-4

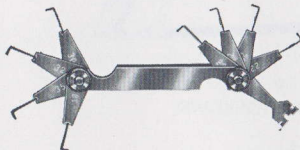
FORD GAUGE



Contains thirteen step-ground $3\frac{1}{8}$ " x $\frac{1}{2}$ " Go-No-Go blades of the following thicknesses: .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .021-.023, .024-.026, .025-.027. Four $3\frac{1}{8}$ " x $\frac{1}{4}$ " Ignition Blades: .015, .016, .020, .025. Three 90° offset wire blades: .025, .028, .035. Two straight wire blades: .017, .030. One electrode bending tool.

No. FG-5

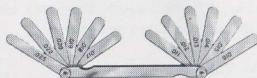
SPARK PLUG GAUGE



No. FG-6

This Gauge consists of one each .022, .025, .027, .028, .030, .032, .035, .038, and .040 Wire Gauges, and Point Bender.

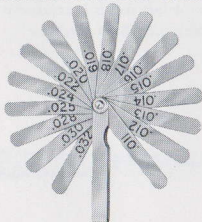
IGNITION GAUGE



Contains twelve $1\frac{1}{4}$ " x $\frac{1}{4}$ " blades of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022 and .025.

No. FG-7

MASTER IGNITION GAUGE

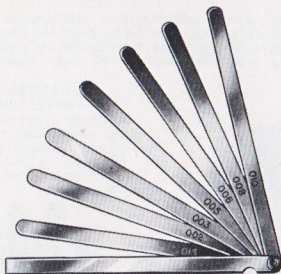


Serves Domestic and Foreign Cars

Contains sixteen $1\frac{1}{4}$ " x $\frac{1}{4}$ " blades of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032.

No. FG-15

Piston Gauge



8 Blade, 9" long. Contains 1 each .002, .003, .004, .005, .006, .008, .010, .015.
No. FG-9

Feeler Stock Holders

Holders are excellent for roll stock use. A small supply of any size stock can be kept in the single end, being pulled out as needed.

Our 12" Blades also are handy in these Holders.

The double end holds 2 sizes stock for valve work. One end for intake valves, the other for exhaust valves. Mechanics like these Holders.

No. FG-10

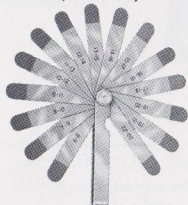
Single End—Length: 5½"

No. FG-11

Double End—Length: 6"

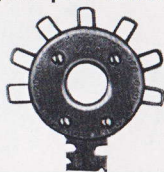


15-Blade General Purpose Gauge (Go-No-Go)



This general purpose "GO-NO-GO" feeler gauge consists of 15 blades in the following sizes: .006 to .008, .007 to .009, .008 to .010, .009 to .011, .010 to .012, .011 to .013, .012 to .014, .013 to .015, .014 to .016, .015 to .017, .016 to .018, .017 to .019, .018 to .020, .019 to .021, .020 to .022. All blades are 3½" long.
No. FG-14 General Purpose Go-No-Go Gauge.

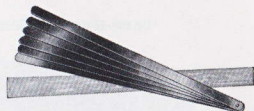
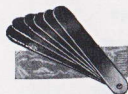
Round Spark Plug Wire Gauge (with point bender)



The convenient round-type spark plug gauge with sizes .020, .025, .028, .030, .032, .035, .040. Also, point bender and adjuster with sizes .055, .065, .110 and .140.

No. FG-18

3½" and 12" Extra Feeler Blades

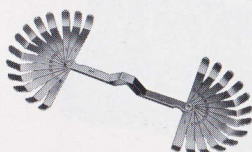


Carried in 3½" and 12" lengths only, in all sizes from .0015 to .040 inclusive. ½" wide. Size marking and punched. Packaged in lots of six pieces. In ordering merely specify size required, and length.

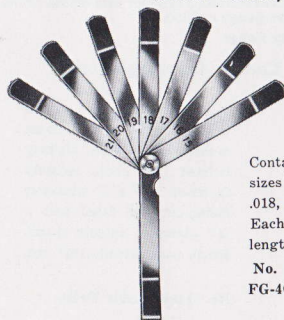
Master Offset Gauge

Contains 26 blades of thickness, sizes .005 to .030. Bent 1" from end at 45° angle, blades are approximately 4" long —½" wide. Primarily used for setting Tappets. Has a wide range of uses where angled blades are required.

No. FG-50



Special Ford-Mercury Gauge (Offset Blades)



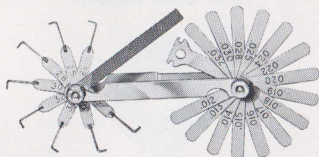
Contains 8 offset blades sizes .009, .015, .016, .017, .018, .019, .020, and .021. Each blade 4" overall, length of offset 1-3/16".

No.

FG-40—Ford-Merc. Gauge.

8 Blade Gauge

Combination Spark Plug and Ignition Gauge



As illustrated above, this gauge contains eight (8) spark plug wire type blades, sizes: .022, .025, .028, .030, .032, .035, .038, .040. The ignition blades are in the following sizes: .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032, and includes a file and point bender.

No. FG-16 Combination Gauge

Snap-Gap Ignition Gauge



Snap-Gap is a precision gauge designed to simplify the problem of setting distributor points. It gives a uniformity and accuracy never before possible with ordinary adjustment methods. This set will cover 6 and 8 cylinder cars whose points can be set by the feeler gauge method.

No. SG-100 Snap-Gap Gauge

Heavy Duty Carbon Cleaning Brushes



WB-5

"Cable Twist" carbon or end brush is made of high strain music type wire tightly twisted into knots securely fastened into a 1" diameter metal cup and fitted with a 1/4" diameter spindle shank. Brush part extends 1 1/4" out.

No. WB-5—Cable Twist

Wheel Brushes

The Quality material used for these wire brushes and excellent workmanship make them the toughest and longest lasting on the market. The crimped wire bristles will wear evenly, thus giving maximum amount of wear right down to the arbor.



No.
WW4
WW6-S
WW6-H
WW6-T

Type
Standard
Standard
Heavy Duty
Temp. Twisted Wire

Dia.	Face
4"	1"
6"	1"
6"	1 1/2"
6"	3/4"

ADAPTER FOR DRILL CHUCK

A sturdy adapter for mounting wheel and cup brushes to a drill chuck. Can be had with 1/4", 3/8" or 1/2" shank. Cadmium plated for rust prevention.



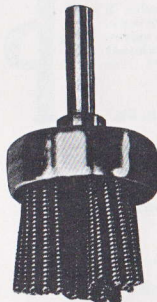
No.	Size
CA-1	1/4"
CA-2	3/8"
CA-3	1/2"

Coiled Wire Brushes

A new service with flare-whipping and rotary action. Bristles will not lie down like straight or crimped wire. Curly-heads stand up in clusters of coiled wire. Powerful spring tension prevents snarling, handles easily, no jerking or jumping. **SAVES WEAR ON DRILL.** Gets into close corners, valve parts, around bolts, etc., leaving burnished surface to which carbon does not readily adhere.

No. WB-2

Coiled Wire Brush (three section)
(Not Replaceable)



Curly-head brush, 1 section for channels, etc., that cannot be reached by larger types.

WB-3 —Coiled Wire Brush (one section)

WB-3R—Refill for WB-3
(Not Replaceable)



Shoe Handle Wire Brush



This is a new shoe handle type wire brush. Designed to fit the user's hand, and just what he needs when cleaning dirt, rust and other foreign matter from automobile parts.

No. WB15 Shoe Handle Wire Brush

Hand Wire Brush



Wire Brush with Screw Eye attached. High grade brush with long curved handle. Prevents injury to operator's hand. Just what you need for cleaning dirt, dust and other foreign matter from rims and wire wheels.

No. WB-10—Length 14"

Nylon Motor Cleaning Brushes



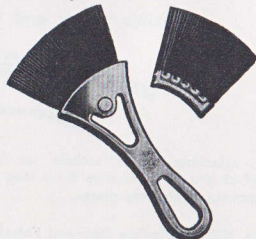
These brushes have been developed for the purpose of motor cleaning and miscellaneous use in the garage. The bristles are of nylon which will give long life, and will not swell or deteriorate in solution used.

No. GB-15 Nylon Bristle Brush— $\frac{3}{4}$ " diameter

No. GB-20 Nylon Bristle Brush— $1\frac{1}{4}$ " diameter

Parts Cleaning Brush

Brush and Refill



Rust Proof, Spark Proof — Warp Proof. Will not "mush" or soften. Bristles will not come out. Handle—die cast aluminum. Will not break. Low cost refill. Clean parts with much less effort. Cleans threads.

No. GB-25—Brush and Holder

No. GB-25R—Refill only

"All-Rubber" Battery Filler



A straight tip, hard rubber, long-nozzle-type filler, with positive leak-proof action. Made of high quality synthetic rubber to resist acid action and retain shape.

No.
BF-6 Battery Filler.

Mueller Universal Clips



No. 27-C Steel, Cadmium Plated, 2-7/16" Long
27-C1 Rubber Insulator for 27-C



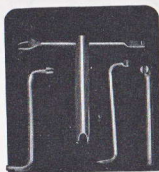
No. 85-C Steel, Cadmium Plated, 2-1/8" Long
85-C1 Rubber Insulator for 85-C



No. 96-C 3-7/8" Long

No. 96-C A large battery clip—the standard for series battery charging work. Jaw Spread 1-1/4".

TUNE-O-KIT



No.
TU-119—Contact Aligning Tool
TU-126—Voltage Regulator Tool
TU-139—V-8 Distributor-Offset Driver
TU-140—Ford Voltage Regulator Tool
TU-160—Complete Set as shown

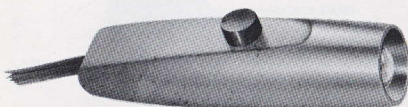
"Slaymaker" Padlock



This lock is solid cast brass, with polished finish. Built for standard security. Size across case $1\frac{1}{8}$ ". Has Double ward mechanism and rust resisting chrome plated shackle. Two coined steel keys.

No.
PL-78 Padlock

Remote Starter Switch



This is a heavy-duty switch and will handle all applications. It also has the feature of having a built-in light which will be very helpful to the mechanic.

No. RCS-5 Remote Starter Switch

Extra Heavy Duty Switch

This remote control switch is Extra Heavy Duty. Used to replace the dash starter button on vehicles equipped with a starter solenoid. If accidentally connected will not be damaged. This heavy duty starter control can be used on vehicles equipped with foot operated starter switches, (see instruction sheet included with tool). This starter control will easily carry the heavy current required in connection with Chevrolet Power-Glide and Oldsmobile solenoids.

No. FT-100—Extra Heavy Remote Control Switch.



Electric Testing Tool

For Testing: Shorts or breaks in wiring. Radio circuits. Connections. Fuses—Bulbs. Armatures—Fields. Dead battery cells. Ignition Timing. Stuck Points. Ground circuits. Switches.

No. ET-100—For 6 & 12 Volt Systems



Electric Trouble Shooter and Spark Plug Tester

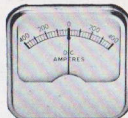


Shorts in Wiring
Breaks in Wiring
Wire Connectors
Ground in Armatures Brush Holders etc.
Continuity of Field Coils
Grounds in Field Coils
Dead Cells in Battery

Spark Plugs
Battery Cable Circuits
Timing of Ignition
Stuck Points in Relay
Ground Circuits of All Lamps
Switch Adjustment
Head, Tail, Stop Lights

No. ET-12—For 6 & 12 Volt Systems

Starter and Generator Current Indicators

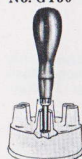


These current indicator tools are simple in operation and easily applied. The starter current indicator will indicate load in amperes from zero to 600. The generator current indicator will indicate load in amperes from zero to 75. Complete instructions covering application is included with each tester. These testers may be used on 6, 12 or 24-volt systems.

No. ST30 Starter Current Indicator

No. GT50 Generator Current Indicator

Distributor Head Brush



Quickly cleans and dresses distributor head sockets.

Just insert, press and turn.

Eliminates rust, dirt and corrosion.

No. DB-5

New Pencil-Type Spark Plug Tester



FEATURES: Will work on both 6 and 12 volt systems.

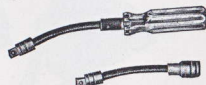
Equipped with pocket clip and automatic disappearing needle, allowing mechanic to carry in shirt pocket.

Push nose of the tester against the spark plug insulation or wire, needle automatically pierces the insulation and retracts when withdrawn.

For standard plug terminals merely hold nose against spark plug.

No. ST20—Tester

Flexible Driver and Extensions



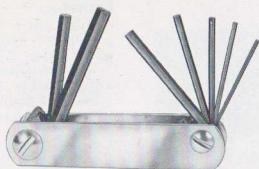
By attaching to your sockets, the flexible driver MF-4 or MF-38 you get a flexible drive that permits removing nuts from out of the way places.

No. MF-4—Flexible Male and Female Extension 1/4" Dr.—4" Long.

No. MF-6—Flexible Male Driver 1/4" Dr.

No. MF-38—Flexible Male and Female Extension 3/8" Dr.—8" Long.

Hex Wrench Set in Metal Holder



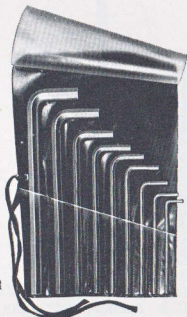
This is a 7-piece set carrying wrenches from .050" through 3/16", fitted in a sturdy steel frame like a pocket knife. Comes complete in a plastic pocket kit.

No. KAW-7 Hex Wrench Set

9 Pc. Long Arm Hex Key Wrench Set

Sizes 5/64" thru including 3/8". Packed in 9-pocket kit as illustrated. A sales appeal package. Wrenches are bright plated.

No.
KAWLL—Long Hex Wrench Set



Hollow-Head Set Screw Wrenches

Individual Wrenches

No.	
AW-050	Size .050 hex.
AW-116	Size 1/16" hex.
AW-564	Size 5/64" hex.
AW-332	Size 3/32" hex.
AW-18	Size 1/8" hex.
AW-532	Size 5/32" hex.
AW-316	Size 3/16" hex.
AW-732	Size 7/32" hex.
AW-14	Size 1/4" hex.
AW-14L	Size 1/4" hex. (Long)

No. KAW—Hollow Head Set Screw Wrench Set (nine wrenches in all.)

Following large sizes available:

No.		No.	
AW-516	5/16" hex.	AW-716	7/16" hex.
AW-38	3/8" hex.	AW-12	1/2" hex.
		AW-916	9/16" hex.

KAW-L All five above sizes in kit.

Ignition Wrench Set



Listed below are two Ignition Tool Kits. The KIWS Kit is our Special kit containing four Wrenches, File, Feeler Gauge, Plier and Neon Screw Driver. The KIW Kit contains a limited assortment consisting of the four Wrenches and Plier only. Both assortments put up in attractive and substantial Leatherette tool kit.

Set KIWS Consists of the following:

No.		Opening Size
IW-2	Wrench	13/64" x 7/32"
IW-4	Wrench	1/4" x 15/64"
IW-6	Wrench	5/32" x 11/32"
IW-8	Wrench	5/16" x 3/8"
P-3	Ignition Plier	

Set KIWS Consists of the following:

No.		Opening Size
IW-2	Wrench	13/64" x 7/32"
IW-4	Wrench	1/4" x 15/64"
IW-6	Wrench	5/32" x 11/32"
IW-8	Wrench	5/16" x 3/8"
PF-5	Steel Point File	
FG-15	Ignition Feeler Gauge	
P-3	Ignition Plier	
SD-181	Ignition Screw Driver	

The above sets service completely the Autolite, Bosch, Delco, Remy, Eisemann and General ignition systems.

Welder's and Grinder's Goggles



The above illustrated goggles are new in construction, giving complete eye safety with maximum comfort. Broader vision with better ventilation. Can be used over regular glasses with complete comfort. The grinder's goggle comes in clear glass. The welder's goggle with #5 colored glass. Lenses are protected with acetate covers.

No. WG-8 Welder's Goggle
No. WG-9 Grinder's Goggle

Deluxe Grinding Goggle



No. GG-5 Grinding Goggle

Welding Goggles



These welding goggles are recommended for standardization and general use by welders, cutters, etc., who either do or do not wear corrective glasses. Crown brace bar allows adjustment to proper fit and one-hand raising or lowering. Eye cups are light weight plastic. Exclusive ray-proof metal side shields protect eyes. Has covering both inside and outside over the regular No. 5 lenses, an acetate plastic cover, which resists impacts that might break the lenses and prevents the shattered glass from reaching the eye.

No.
WG-1 Welding Goggles.

DeLuxe Grinding Goggles



These goggles are made of one-piece molded Acetate. Designed to fit snug over the eyes, with spectacles or without and give sure eye protection.

No.
GG-2 Grinding Goggles.

Full Face Shield



A very popular model. Pliable metal bound replaceable window. Formed fibre forehead protection piece. Sweatpad mounted on fibre front band. Fibre top band. Dura-flex long wearing rear band. 6" WINDOW STANDARD.

No.
FS-1120 Grinder's Shield.
FS-1120W Welder's Shield.
FSW-D Replacement Window Shield—Dark Green.
FSW-C Replacement Window Shield—Clear.

Soft Vinyl Welding Goggle

Opaque Black Frame — Stac-Vent

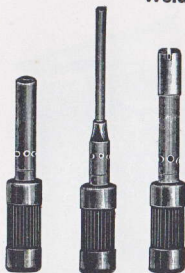


Featuring:

- Wide Angle "Picture Window" Vision
- Fits Over All Prescription Glasses
- Comfortable Soft Plastic Frame
- Easily Replaceable Lens
- Positive Lens Lock Bar
- Light Proof Ventilation

No.
WG-5—Welding Goggle

Welding Tip Sets



These Welding Tips are available individually or in a set of three. Packed in a handy leatherette kit. The kit is comprised of a Leading Tip, a Fine Radiator Tip, and a Paint Burning Tip. Each tip is equipped with its rubber base attachment. These are of first quality throughout, built to stand a lot of punishment.

No.
LST-1 Leading Tip and Rubber Attachment in kit.
LST-2 Radiator Solder Tip and Attachment in kit.
LST-3 Paint Burning Tip.
LSTK Complete Set of Three types in kit.

Welding Tip Cleaner Set

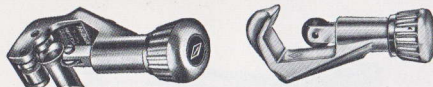


WYPO Tip and Orifice Cleaners are designed and manufactured by welders. The WYPO Tip Cleaner is a PRECISION made tool, made of STAINLESS STEEL. Contains the following sizes.

Cleaner No.	For Drill	Cleaner No.	For Drill
7	75-74	16	59-58
8	73-72-71	17	57
10	70-69-68	18	56
12	67-66-65	22	55-54
14	64-63-62	24	53-52
15	61-60	26	51-50-49

No.
WTC-1—Welding Tip Cleaner

Imperial Tube Cutters



The Imperial hi-duty tube cutter with free wheeling ball bearing action, roller type with flare cut-off groove, retractable locking reamer. Range capacity $\frac{1}{8}$ " to 1" O.D.

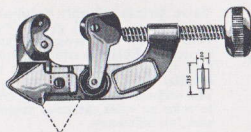
The Imperial "Junior" tube cutter of streamlined design makes it a handy tool to carry and can be used in hard-to-get-at-places. Range capacity $\frac{1}{8}$ " to $\frac{3}{4}$ " O.D., inclusive.

No.

TC274-F Imperial "Hi-Duty" Tube Cutter.

TC227-F Imperial "Junior" Tube Cutter.

Tubing Cutter



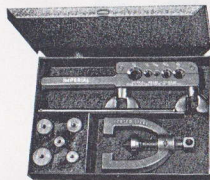
This new cutter is designed to cut tubing from $\frac{1}{8}$ " to 1". Has rollers and is built with slide-reamer. Is fully Chrome plated. Cutting blade is connected to spring and is self-adjusting with right or left turn of the large easy-grip handle. Attractive, and a quality tool all the way through.

No.

TC-4

TC-4-C — Cutter Blade only.

Imperial) Double-Flare Tool (Set)



For:

Thin-Wall — Soft
Steel, Soft Copper
and Aluminum
Tubing

Provides a new, simple, speedy method of making accurate 45° double-flares on thin-wall, soft steel tubing for S.A.E. flare and inverted flare joints. Can be used for making single or double flares on soft copper or aluminum tubing. Double flares are an advantage when joints are reconnected frequently.

Complete set in metal box includes flaring bar, yoke, and 5 adapters.

For $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{3}{4}$ " O.D. Tubing.

No. FT-93-FB—Double Flare Tool



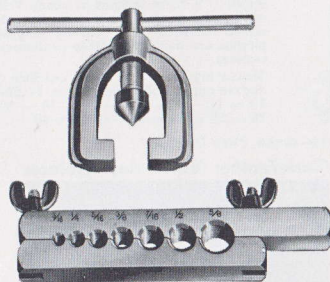
Impakdriver

This is the answer to a mechanic's dream for problem screws, bolts or nuts which refuse to be turned. This tool saves dollars and hours, tempers and skinned knuckles. Pays for itself on the first tough job made easy. Equipped with $\frac{3}{8}$ " service, used with sockets and screwdriver bits. Just twist and rap. Twist in the desired direction . . . rap with hammer . . . and presto, screws, bolts or nuts loosened in a jiffy. That's why the Impakdriver belongs in every mechanic's tool chest.

No.

ID-67 Impakdriver

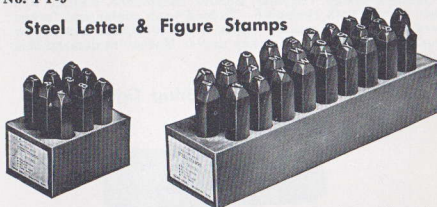
Tube Flaring Tool



Will flare brass, copper or aluminum tubing to make S. A. E. flared joints without splitting. The gripping jaws are knurled. This prevents tube slippage during flaring operation. Takes tube sizes $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " O.D. All holes marked for size.

No. FT-9

Steel Letter & Figure Stamps



These steel letter and figure stamps are sturdy, anti-mushroom hammer end. Clear deep impressions, high carbon steel, rust-proofed. Scientifically heat-treated. The shank will not bend, will not chip; they are designed to give years of service. They come packed in a handsome lacquered box. Letter sets consist of 28 pieces and figure sets consist of 9 pieces. Can be purchased in sets or singles.

No.

LS-316 $\frac{3}{16}$ " Letter Set—28-Piece

LS-25 $\frac{1}{4}$ " Letter Set—28-Piece

FS-316 $\frac{3}{16}$ " Figure Set—9-Piece

FS-25 $\frac{1}{4}$ " Figure Set—9-Piece

Hand Valve Grinders

Valve Grinder, highly finished gray iron body. Pressed steel gears. Four driving points and one long extension shank provided. Reciprocating motion for perfect valve lapping by simply turning the handle.

The end-thrust ball-bearing, with a spring to take up wear, assures smooth running and full efficiency.

- No.
VG-12 Complete with extra parts
VG-10 Vacuum Cup
VG-11 Spring
VG-13 Narrow Two-Prong Adapter
VG-14 Wide Four-Prong Adapter
VG-15 Screw Driver Type Adapter
VG-16 Narrow 4-Prong Adapter

Screw Pitch Gauges

These gauges enable the user to measure either U.S. form threads or sharp V threads with same gauge. Each blade has accurate milled threads, and thread angles and pitches are held well within commercial tolerances.

Measuring sizes — threads per inch. All 60 degree angle, U.S. thread form. 14 Blades — 10 — 11 — 12 — 13 — 14 — 16 — 18 — 20 — 24 — 27 — 28 — 32 — 36 and 40.



No. SG-514—Screw Pitch Gauge.

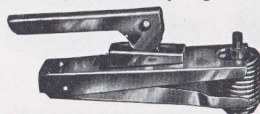
Clark-Feather Valve Key Replacer



Holds the keys firmly. This is the surest tool to return the locks to the valve stem. Replaces the small ribbed keys for Plymouth, Dodge, Chrysler, DeSoto, Oldsmobile, Pontiac, and 1949 Fords, 1948 Hudson 6. To load push center and forked bars to forward positions. Open a jaw and place key in jaw cup. Replaces the keys at any angle. Mechanics demand this replacer.

No. CF-7

Chevrolet 6-Cyl. Valve Spring Compressor

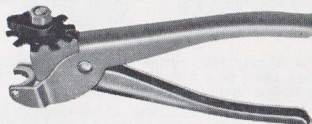


Designed to fit all Overhead Valve Spring Motors that are within range of the tool.

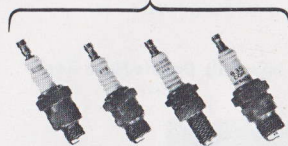
It's easy to compress valve springs when you use this tool for the job. It is designed with an adjusting wedge which has three positions for adjusting the opening and closing space between the jaws. A specially designed lever will automatically lock itself, so that it is not necessary to hold the handle while removing the keepers. The smooth, streamlined, round finished end prevents cutting, scratching, or injury to the hand when putting the jaws into the springs.

No. VC-30

Spark Plug Gapping Tools



CF-71



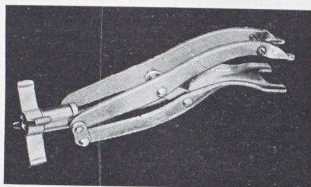
14 mm.	18 mm.	14 mm.	18 mm.
3/8 - 7/16 in.	Turbo	3/4-in.	Commer-
Reach	Action	Reach	cial

New CF-71 for the larger sizes and new long-reach plugs. An improved design avoids all contact with the porcelain in one-hand gauging and gapping of new or reconditioned plugs... the only accurate and uniform way. Fast and easy—makes a fat, sure spark for satisfied customers.

No.

CF-71 Spark Gap Tool

Little Shorty Valve Lifter



Most highly recommended for all Chrysler, De Soto, Dodge, Plymouth, Oldsmobile, Pontiac, Packard, Studebaker, Kaiser, Frazer, International Harvester, 1948 Hudson Six, 1949 Ford Six, and all other "L" head motors with straight stemmed valves.

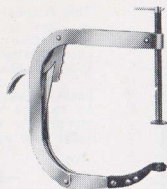
Lifts valves adequately, and still leaves enough room to replace locks with ease. Lift valves in tight places with The Little Shorty.

No.

CF-49A

Length 8 1/2"

"C" Type Valve Lifter



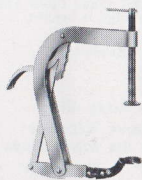
Height 10¼", width 9¼", handles 1" to 2½" spring.

Equipped with CF-21 straight jaws, CF-22B offset jaws and CF-23 straight jaws are included in package.

Recommended for all Valve-in-head automotive motors and L-Head motors which allow working room for the tool. Truly a one man tool. Easy control. Designed for use with Split Lock Replacer CF-7 for easy and sure handling of locks without a fumble.

No. CF-11 With Straight and Offset Jaws

"C" Type Valve Lifter



The CF17 Valve Lifter is for V-8 Overhead Valve Engines. This new tool is designed particularly for the new high compression car and truck engines with V-8 block and overhead valving. It is not necessary to remove the exhaust manifold for working room. The pin-operated, fine adjusting screw provides accurate control of spring compression. The exact adjustment for removing and replacing valve stem locks and seals is easily and surely obtained.

The tool is equipped with medium offset jaws as shown, No. CF-22C takes 1" to 2" diameter springs with built-in screw adjustment. Extra jaws available: Jaw Nos. CF21, CF22B and CF23.

No. CF17 Valve Lifter

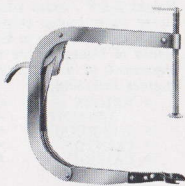


Midget Piston Ring Compressor

Made specifically for foreign cars, small Briggs & Stratton type gas engines as used for power mowers, diesel starters, refrigerators, scooter bikes, etc.

No. RC10—Midget Ring Compressor

"C" Type Valve Lifter



Height 10½", width 12", handles 1" to 2½" spring.

Recommended for automotive motors, L-Head or Valve-in-Head, and is especially designed for trucks, buses, tractors and heavy duty motors, also marine and Diesel engines. Full leverage power is built into the tool, no other equipment needed. Easy to operate and control.

Equipped with CF-21 straight jaws, CF-22B offset jaws and CF-23 jaws are included in the package.

No.

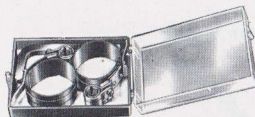
CF-21 Straight Jaws—1¼" to 1¾" capacity.

CF-22-B Offset Jaws—1½" to 1¾" capacity.

CF-23 Large Straight Jaws—1½" to 2¼" capacity.

CF-16—Truck Type—Width 12"—Height 10½".

Outboard Piston Ring Compressor Set



(Patent Pending)

Capacity 1½-3 inches (two compressors packaged in an attractive plastic box)

This Ring Compressor set consists of two Ring Compressors which have been specifically developed for Outboard and other motors where the cylinder block is placed down over the pistons. On twin cylinder motors the pistons must be in the same horizontal plane when replacing the block, hence the need for two Compressors. The Speed-O release catch allows the mechanic to quickly remove the compressor from around the connecting rods.

No. RC25—Ring Compressor Set.

Chevrolet V-8 Piston Ring Compressor



No.

RC 15—Chevrolet V-8 Compressor.

Small Engine Valve Lifter



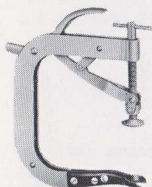
Height 5-1/8", width (depth) 3-3/8", for air or water cooled 4-cycle engines with spring diameters up to 1-1/16". Provides plenty of clearance for removal and replacement of valve locks on all small engines including:

- BRIGGS & STRATTON
- WISCONSIN
- CLINTON
- LAUSON
- KOHLER
- LEROI
- ONAN
- CUSHMAN
- HOMELITE
- INDIAN
- HARLEY DAVIDSON

No. CF-19 Small Valve Lifter

No. CF-19-3 Small Jaw

No. CF-19-4 Regular Jaw

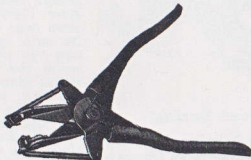


Compact Car Valve Lifter

This Lifter is designed for all compact and foreign cars.

No. CF-18 Valve Lifter

Piston Ringer



PISTON RING TOOL — Tool is so designed that it will handle any size automotive piston ring. It will also handle truck or diesel engine rings up to and including 1/4" width any diameter. All sizes are easily installed or removed.

No. PR00

Valve Guide Cleaners



This Curly-head Valve Guide Cleaner adjustable 5/16" to 5/8" on Valve Guides for all size cars, trucks and tractors. Use one tool instead of many. Refills are obtainable. Life of coiled wire many times that of straight or crimped wire. Pay for themselves in very few operations. (Not Replaceable)

VC-7

VC-7R—Refills only



Piston Ring Compressor (Ratchet Type)

This Ratchet Type Compressor has self-locking heavy duty ratchet pawl of oil tempered spring steel. Winding spool broached 1/2" square and 1/2" deep. Double friction brake adjustment in addition to ratchet. Beaded edge — compressor can't enter cylinder with piston.

No.

- RC-50 — Passenger Car 3 1/2" Band
- RC-50T — Truck Size
- RC-50B — Bands only
- RC-50TB — Bands only



Truck — Tractor — Diesel Compressor

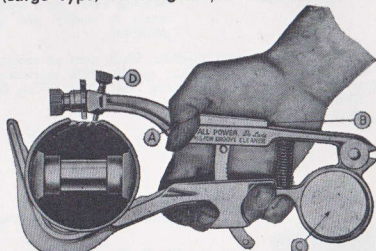
Here's the giant compressor with 6 1/2 inch height and four tension bands. Takes up to 7 inch diameter diesel, truck and tractor motors. Handles jobs where the gap from top ring to skirt ring is more than three inches. You will find the extreme height and added bands handle these larger jobs to perfection. This compressor is well worth the higher initial cost. All bands are of highest grade Clock Spring steel. Lower edge is beaded.

RC-150T

RC-150TB — Bands only

De Luxe Ring Groove Cleaner

The New Groove Cleaner with the 5/64" Blade (Large Type) Servicing 2-1/2" to 5" Pistons



The locking principle is quickly executed and positive. "No back slipping."

Large ring for inserting fingers for turning tool.

The quick-setting, self aligning large cutter blade permits quick operation.

No.

- RG-500 Services 5/64", 3/32", 1/8", 5/32" and 3/16".
- RG-500C Standard Cutter Blade only.
- RG-500CT 1/4"-5/16" Cutter Blade only for trucks.

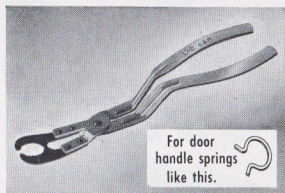
K-D Hose Clamp Plier



Gets all sizes in, out, any position, without struggle. Necessary on 1957 models!

No.
KD-428 Hose Clamp Plier
KD-429 Hose Clamp Plier with Latch

K-D Door Handle Spring Remover



For GM cars, Ford-built, Nash, Studebaker. Necessary on 1957 models.

No.
KD-430—Door Handle Spring Remover

Lock Clip Removal Tool



Removes that stubborn, tricky little horseshoe spring clip that holds the inside door and window handles on all General Motors cars. Does in a few seconds a job that formerly took many minutes. Tool is inserted in handle slot, lock clip gripped lightly, then rocked to right—and lock clip rolls out easily. (Not replaceable)

No. P-1—Regular.

Chrysler Door Handle Tool



For removing inside door-window handles of all late Chrysler products. Two prongs straddle the door handle shaft and raised projection at base of prongs presses against handle retaining spring. Opposite handle end offset for easy use.

No. DT-118 Door Handle Tool

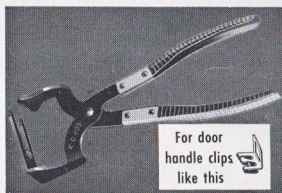
K-D Battery Handler



To install, remove and carry Batteries with safety and ease. For all widths of popular long or short types of 6- and 12-volt batteries. See illustrations.

No.
BH-140—Battery Handler

K-D Chrysler Door Handle Remover



For all Chrysler-built since 1955. Releases retaining spring so handle can be removed. Necessary for 1957's!

No.
KD-435—Chrysler Door Handle Remover

1955 G. M. Lock Clip Remover



One end of tool pushes locks out of new style GM door-window handles. Other end is for older style handles. Just insert tool in bottom or handle side and push up. Lock clip jumps right out.

No. DT-115

Upholsterer's Tool

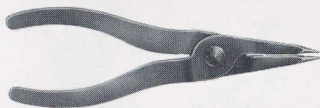


This tool is a handy one for the automobile body repairman. It is designed to use as a tack puller and very applicable for use in breaking away the upholstery and backboard from the inside of the body. Will last for years. Not replaceable.

No. UT-2



STRAIGHT NOSE TRUARC RING PLIERS

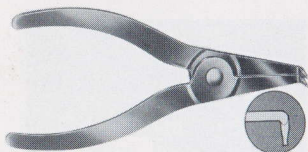


These are the original pliers designed by the manufacturer of the rings. These come in both external or internal, as specified below.

No. TP21 Internal Ring Plier

No. TP22 External Ring Plier

ANGLE NOSE TRUARC RING PLIER

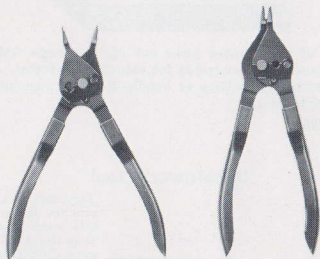


These pliers have a 90-degree angle tip at the nose. These pliers were also designed by the manufacturers of the rings. A must in automatic transmission work, and other uses where these rings are found.

No. TP21A 90-Degree Angle Internal Plier

No. TP22A 90-Degree Angle External Plier

COMBINATION TRUARC RING PLIER



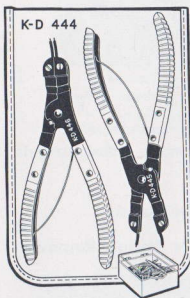
These pliers, designed by the manufacturers of the rings, are for both internal or external use. Simple adjustment of jaws makes the plier either an external or internal type, as required.

No. TP12 Combination Plier (Small) 5 1/2" Long

No. TP34 Combination Plier (Large) 7 1/2" Long

K-D SNAP RING PLIERS

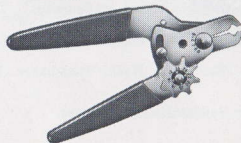
(WITH INTERCHANGEABLE POINTS)



One plier for internal and one for external use. Using different types and sizes of interchangeable points the mechanic has a wide range of applications.

No.	Set as Shown
KD-444	Package of 5 Pair Interchangeable Points in Plastic Box
KD-448	Package of 9 Pair Interchangeable Points in Plastic Box

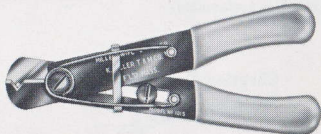
Plier-Type Wire Stripper



Wire Stripper is 5-1/2" over all, with red vinyl handles. It can be set for various size wire by the flip of your thumb. Covers wire sizes 12 through 26.

No. WS760 Wire Stripper

WIRE STRIPPER AND WIRE CUTTING TOOL



Here is an economical small and handy wire tool for general use on all commonly used wire. The blades have been hardened and ground to cut with a smooth, shearing action. The tool will strip the insulation from wire with ease.

No. WS101 Wire Stripper

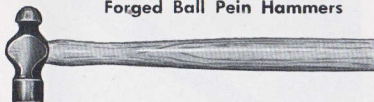


Plastic "MacLoid" Tip Hammers

Soft, but tough tips of plastic which are easily replaceable. Especially useful for fitting piston pins, wrist pins, gears, bearings, tapping valves, ignition and distributor work. Three popular sizes. Center is quality steel with first quality hickory handle, which is securely anchored. (Tips Not Replaceable)

No.	
PH-8	Round Face 1 1/4" Dia. 1/2 lb. 11 3/4" long.
PH-8A	Extra Tips for 1/2 lb.
PH-16	Round Face 1 3/4" Dia. 1 lb. 11 3/4" long.
PH-16A	Extra Tips for 1 lb.
PH-32	Round Face 1 3/4" Dia. 2 lb. 3 1/2" long.
PH-32A	Extra Tips for 2 lb.
PH-32H	Handles only for PH-32.

**Super Quality
Forged Ball Pein Hammers**



Machinists' Ball Pein Hammers of splendid workmanship, Yemper and style. Well balanced and will give excellent service.

No.	Weight Lbs.	Each Ozs.	No.	Weight Lbs.	Each Ozs.
BH- 2	—	2	BH-24	1	8
BH- 4	—	4	BH-32	2	—
BH- 8	—	8	BH-40	2	8
BH-12	—	12	BH-48	3	—
BH-16	1	—			

Hammer Handles



No.		Length
H- 2	Hammer Handle for 2 oz.	10"
H- 4	Hammer Handle for 1/4 lb.	10"
H- 8	Hammer Handle for 1/2 lb.	12"
H-12	Hammer Handle for 3/4 lb.	13"
H-16	Hammer Handle for 1 lb.	14"
H24-32	Hammer Handle for 1 1/2 & 2 lbs.	15"
H40-48	Hammer Handle for 2 1/2 & 3 lbs.	16"
BT-273	Light design for Body Hammers	12"
BT-274	Regular design for Body Hammers	12"
BT-276	Light design for Body Hammers	20"



Red Devil "Grady" Wedges

The best wedges ever made. Drive one of these wedges on, and it will STAY wedged. Vibration cannot work it loose because it "barbs" into the wood. Will not chip or break under heavy blows.

No.	Number Per Box	Size Length - Width
HW2	3 Doz.	3/4"x5/16"
HW3	3 Doz.	3/4"x7/16"
HW4	3 Doz.	7/8"x3/8"
HW5	3 Doz.	1-1/4"x1/2"
BTW	1 Doz.	7/8"x3/8"

**Spark-Testing Screw Driver
(Not Replaceable)**

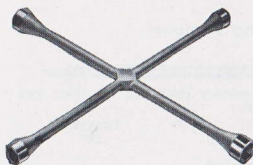
Brilliant Flash, Plug O.K. Stringy Flash, Plug Partly Fouled No Flash, Dead Plug.

Red Pyrolin Handle Shock Proof



No.
ST-2 —Length 4 1/2"
ST-2T—Tube Only

**Four Way Wheel Nut Wrench
(For Passenger Cars)**



Extra long arms for wide fender clearance. Drop forged solid in one piece from high carbon steel and heat treated throughout. Forged with deep popular openings.

TT50 3/4" - 1 1/8" - 7/8" - 1 1/8"
TT51 3/4" - 1 1/8" - 7/8" - 1 1/8"

22"
22"

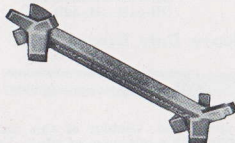
**Offset Drain Plug Wrench
(for male plugs)
H**



A B C D E F G H

A—Hudson, Studebaker, Pontiac, Willys
B—Ford
C—Buick, Studebaker, Cadillac, Oldsmobile
D—Oldsmobile, Pontiac, Chevrolet
E—Lincoln-Zephyr, Ford
F—Chrysler, Plymouth, DeSoto, Dodge
G—Nash
H—Cadillac, Buick
No. DP-2

Drain Plug Wrench



Ten-tools-in-one for all female plugs. Compact, easy to handle and designed to save time on oil changes. Lugs forged accurately to size. Heat treated and satin nicked. No. DP-1

Straight Spoon Type Tire Iron



A strong and sturdy tire iron for passenger car use. Made of alloy steel.

No.	Length
TT-1	24"

Curved Spoon Type Tire Iron



A strong and sturdy tire iron with curved thin blade. Made of alloy steel.

No.	Length
TT-2	24"

Lock Ring Remover



Especially designed for Firestone rims. An excellent lock ring tool. Made of alloy steel.

No.	Length
RT-1	20"

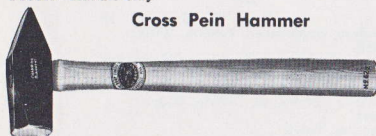
Rubber Mallet



Made of high grade live rubber, not scrap rubber. The head molded on the handle, which has ridges thus preventing the head from coming off. Screw anchored.

No.	Length	Weight
TT49—Molded	12"	12 oz.
TT53—Molded	15"	2 lbs.
TT53H—Handle only		

Cross Pein Hammer



Face and Pein polished. Oil finished Body. Second Growth Selected Hickory Handle.

No.	OH-40H—Handle only
OH-40—2½ lbs.	OH-48H—Handle only
OH-48—3 lbs.	OH-64H—Handle only
OH-64—4 lbs.	

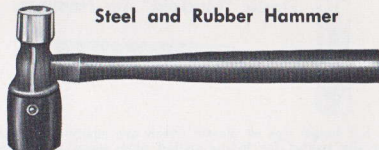
Heavy Duty Driving Iron



Designed with curved end. Contour of this tool assures a powerful even drive with a minimum of effort. For truck and bus use for loosening and removing frozen rusted truck beads. Will speed truck repair work.

No.	Length
TT-22	12"

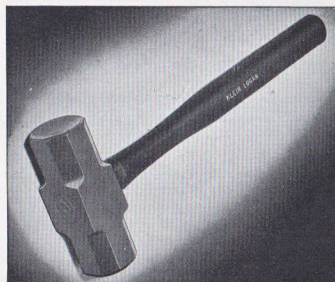
Steel and Rubber Hammer



Two-way Combination Steel and Rubber Hammer for mounting tires. Replaceable rubber head. Will not mar rims. Also a hammer for general use.

No.	Length	Weight
TT-60	16"	2½ Lbs.
TT-61—Rubber Heads only		

4-Pound Sledge Hammer



An extra durable red headed sledge with a rich-looking stained hickory handle 16" long. Has high-polished faces.

No. SH-100 —4-Pound Sledge Hammer
No. SH-100H—16" Handle only
No. SH- 32H—32" Sledge Hammer Handle

Brass Drift



To get at those driving jobs where soft punch is required. 8" long — ¼" stock.

No. BD-8

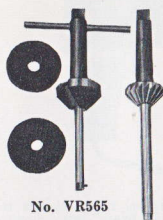
Muffler - Tail Pipe Shaper



This is a tool designed to save time and money on distorted muffler or tail pipe joints. Removes nicks, dents and old clamp ridges. This is a necessary tool for both old and new pipe.

No. MT50 Muffler Tool

Valve Seat Reseater For Small Gasoline Engines



No. VR565

For Briggs & Stratton, Clinton, Continental, Cunningham, Cushman, Fairbanks Morse, Gladden, Jacobsen, Kohler, Lauson, Onan, Pioneer-Gen-E, Red Seal, Reo, Wisconsin & other low horsepower engines having 45° valve seats 5/8" to 1-1/4" diameters.

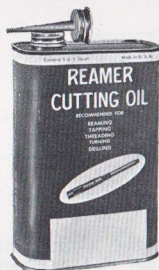
A very practical and inexpensive way to reseat both the intake and exhaust valve seats on these light duty engines used on Power Lawn Mowers, Washing Machines, Pumps, Generators, Garden Tractors, etc.

Set consists of an 1-1/4" — 45° Abrasive Cutter with coarse abrasive (for hard exhaust seats), one dozen Abrasives (6 coarse and 6 fine), also an 1-3/16" — 45° Solid Type Cutter (used on the intake cast iron seats), one each 1/4", 9/32" & 5/16" Pilots and one Handle.

VR 574 One Dozen Coarse Abrasives, 1-1/4" — 45°.

VR 575 One Dozen Fine Abrasives, 1-1/4" — 45°.

Reamer Cutting Oil

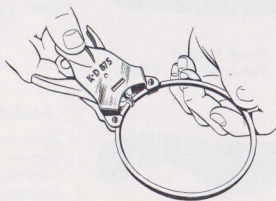


Recommended for Reaming — Tapping — Threading — Turning — Drilling. A Must When Reaming Steel

A few drops of reamer cutting oil distributed evenly over the surface to be reamed or machined will save many times its cost on repairs and sharpening of your cutting tools. Equally important when reaming the tough alloy bronze bushings now used on most cars and trucks.

No. RO-5

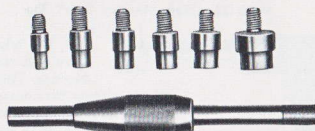
K-D PISTON RINGER



Pocket size for rings less than 4" in diameter. Ring gripped by tool expands when handles are squeezed.

No. KD-875 Piston Ringer

Clutch Aligning Tool

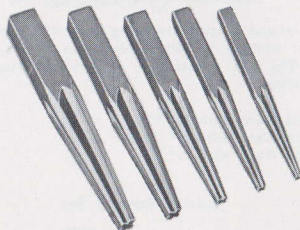


The new and complete clutch aligning set which covers all the necessary sizes for the mechanic to centralize and put in perfect alignment the clutch disc and pressure plate with the pilot bearing in the flywheel. This set contains dual pilots covering all 12 sizes, and the clutch aligning tool. These are machined and heat treated for accuracy and long service. Has bright nickel finish.

No.

CA-20 In Cardboard Box

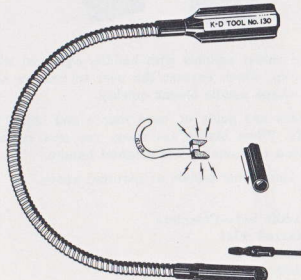
SCREW EXTRACTOR SET



These extractors are the fastest type and vastly superior to other designs. Only 3 quick steps required. The sharp edges will bite positively. Gradual taper of flutes prevents wedging and binding. Objects with right or left threads may be removed. This set includes the 5 most popular sizes of extractors as listed below with our individual numbers.

No. SE-1	1/8" Extractor	No. SE-4	19/64" Extractor
No. SE-2	11/64" Extractor	No. SE-5	11/32" Extractor
No. SE-3	13/64" Extractor	No. SE-25	Set of 5 Extractors

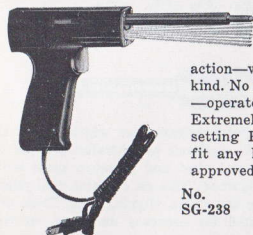
K-D DISTRIBUTOR CARBURETOR ADJUSTING TOOL



This is a combination tool. Has 1/8" hex bit for contact points on Delco - Remy distributors and screw driver bit for carburetor adjustments. Also distributor cap window holder.

No. KD-132
Distributor Carburetor
Adjusting Tool

Instant Heat Soldering Gun With The New "Walloy Life" Tip



Pull the trigger—you have soldering heat in seconds. Thermostatic action—without thermostats of any kind. No heavy, bulky transformers—operates on AC or DC—any cycle. Extremely light weight. Thermostatically setting Plastic Handle—shaped to fit any hand. 6 ft. Underwriters' approved 3000 cycle cord and plug.

No.	Tip	Max. Watts	Min. Watts
SG-238	1/4"	150	75

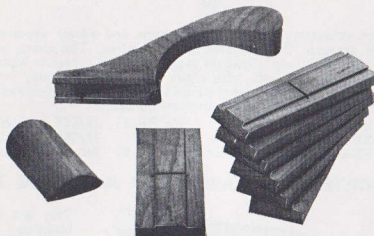
Electric Soldering Irons



Super DeLuxe Electric Soldering Iron with the following features: Fintype Radiators guaranteeing cool handle — Copper Tip with special alloy — Chrome Plated, UL and CSA approved.

No.	
SG-1	80 Watts with 3/8" Tip.
SG-2	110 Watts with 3/4" Tip.
SG-3	150 Watts with 7/8" Tip.

Solder Paddle Set



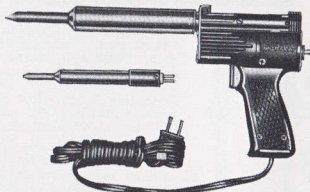
A complete set of solder paddles with handle, equipped with patented spring clip, which enables the user to remove and replace different shape paddle blades quickly.

Handles and blades are made of hard maple and boiled in wax, for long life. When blades are worn, you just replace the old blade with a new one on the original handle.

Set consists of 8 blades and handle as pictured above.

No.	
SP-50	Solder Paddle Set—Complete
SP-51	Blade—Narrow Flat
SP-52	Blade—Wide Flat
SP-53	Blade—Half-round
SP-54	Handle only

Trig-R-Heat Soldering Guns



The instant heat electric soldering irons, ready to use in seconds. Equipped with "Thermostatic Brain" giving controlled heat. Has built-in Spot Light, is very light in weight. Two models, one equipped with a 1/4" solid tip and the other a 1/2" solid tip. Both size tips are interchangeable on each gun.

No.		Max. Watts	Min. Watts
SG212	Soldering Gun — 1/2" Tip.	650	300
SG214	Soldering Gun — 1/4" Tip.	400	150
SGT-1	1/4" Tip (for 212 or 214)		
SGT-2	1/2" Tip (for 212 or 214)		

Shurlite Torch Lighter & Flints



SPECIALLY DESIGNED HOOD, protects file and forms a pocket for the gas, insuring instant lighting.

HEAVY DUTY ROUND FILE, may be turned slightly from time to time to provide a fresh surface for the flint.

LARGE SPARK TIP, can produce as many as 1500 ignitions before replacement is necessary.

HIGH QUALITY STEEL WIRE, properly tempered to retain its tension. Is tinned for rust prevention.



Finest quality flint, just right for maximum ignitions with minimum file wear. Will fit all standard threaded lighters. Packed six to a box.

No.	
TL2001	Torch Lighter
TL2001X	Torch Lighter Flints

Solder Paddles

Hard maple for long lasting, clog-free service. Boiled in tallow to preserve and lubricate.

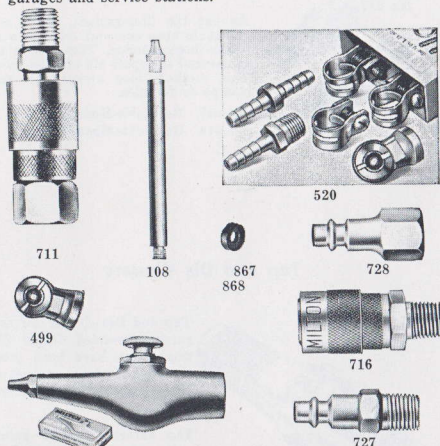


No.	Blade
SP 11	4" x 1 1/2" (flat)
SP 22	4" x 1 1/4" (flat)
SP 33	5" x 1" (rounded)

SP 3 Complete set of three

Airline Tools and Fittings

Kwik-Change Couplers with both Male and Female Plug connections save valuable time. These are used with all air operated equipment such as Blo-Guns, Paint Sprayers, Air Hammers, etc. These items listed below are a necessity for garages and service stations.

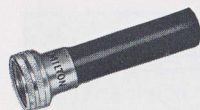


- | | |
|---------------------------|-----------------------------------|
| No. | No. |
| 711 Kwik Coupler and Plug | 108 4-in. Blo-Gun Extension |
| 716 Male Coupler Body | 520 Air Hose Repair Kit |
| 727 Male Plug Only | 867 Neoprene Washer for Air Lines |
| 728 Female Plug Only | 868 Neoprene Washer for Blo-Gun |
| 107 Blo-Gun | 499 Female Air Chuck |



No. 150 Lever-type Blo-Gun $\frac{1}{4}$ " I. P. T.

Bend-O-Bib Water Nozzle



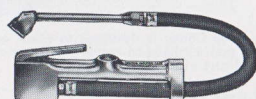
No. 300 Water Nozzle

Bend the hose and the water flows, then release for automatic shut-off. No wasted water, it is simple and convenient. Used for filling car radiators, washing cars and an important must in all regions where conserving precious water is necessary. Overall length is 4", equipped with $\frac{3}{4}$ " Female thread.

Garage Inflator Gauge

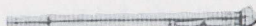
This gauge is easier to read with its fine line indicator. Lever control fits your hand, is well balanced and of rugged construction.

Has factory set replacement cartridges, which can be inserted on the spot, no waiting for repairs.



- No.
- 505 Inflator Gauge—Single Head
 - 506 Inflator Gauge—Double Head
 - 507 Replacement Cartridge

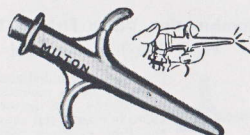
Pencil Type Air Gauge



This gauge is designed for the service man who wants the best. It is **ACCURATE**, **STURDY** and also **DEPENDABLE**. Chrome plated, with square, full-swivel bar evenly marked in 1-lb. graduations on all four sides which are easy to read.

- No.
- TG-515 Pencil Tire Gauge
 - TG-917 Low Pressure Gauge 0 to 20 lbs.
 - TG-925 Truck Tire Gauge 0 to 120 lbs.

Air Chuck Nozzle



A Handy Blow-Gun

Ready for instant use—simply press NOZZLE into opening of Air Chuck.

No. 112S Individually Carded

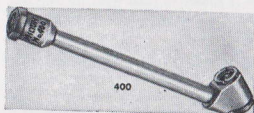
Tire Deflator

Screw this tool on valve, tube automatically deflates. Also may be used for removing and replacing valve cores.



Tool No.
T-107—Tire Deflator

Dual-Head Chuck



This Dual-Head Chuck is designed to allow access to curved valve stems and all hard-to-reach places when applying air. For use on direct air lines only.

No. 400 Dual-Head Chuck

Pitman Arm Remover



Ideal for all passenger cars and small trucks where Pitman arm extends through frame.

No. PR-40—Pitman Arm Remover

Mac Tie Rod Spreader



Works on the wedge principle and will spread the toughest clamp. Opening is forged 23/32" wide to straddle bolts on Ford, Chevrolet, etc. Heat treated and guaranteed.

No. TS-38—Tie Rod Spreader

Combination Valve Fishing Tool With 4-In-1 Valve Tool



Combines two indispensable tools used by everyone in mounting a tire. The cap of the tool screwed on to the valve is a safe and easy way to bring the tube in place when the tire is mounted. Complete tool nickel plated.

No. T-106 (Not Replaceable)

E-Z Out Valve Tool

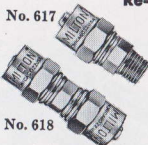


A DeLuxe 4-in-1 tool for removing and replacing tire valve cores, re-threading inside and outside of valve stem.

The core remover has convenient guide which slips over the valve stem. E-Z out for backing out valve insides when shoulders are broken off.

No. T-105 (Not Replaceable)

Re-Usable Hose Fittings

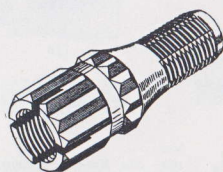


As per the illustrations, #617 is a re-usable hose end and #618 is a re-usable hose mender. These items are in demand to repair old air line hoses. This method does away with hose clamps or ferrules.

No. 617 Re-usable Hose End

No. 618 Re-usable Hose Mender

Tap and Die Chasers



Tap and Die Chaser for correcting Inverted Flared Fittings that have been cross threaded. Put up one set of three (carbon steel) Chasers to box.

The external twelve points will enable you to use these chasers by hand or with any socket wrench.

No. TDC-5 Consists of one set of

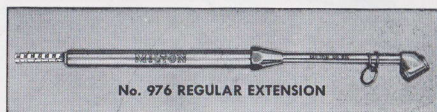
1 — 3/8" — 24 P.I. Thread for 3/16" tube size

1 — 7/16" — 24 P.I. Thread for 1/4" tube size

1 — 1/2" — 20 P.I. Thread for 5/16" tube size

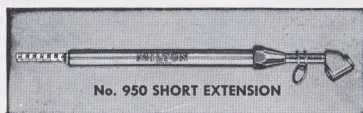
Truck Tire Gauge

Dual head chuck . . . for use with trucks, buses, passenger cars, aircraft, etc.



No. 976 REGULAR EXTENSION

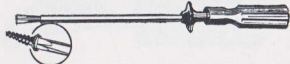
No. TG-976—Regular Extension



No. 950 SHORT EXTENSION

No. TG-950—Short Extension

Screw Holding Screw Drivers



REALLY HOLDS THE SCREW

Shockproof-Unbreakable Plastic Handle.
Pentagonal Button Prevents Rolling.
High Carbon Spring Steel Blade with Hollow Ground Bit.
Strong "Rust-Resisting" Steel Tubing.

No.

SH-2—2 in. x 3/16 in. Shank .028 in. Bit
SH-3—4 in. x 3/16 in. Shank .028 in. Bit
SH-4—4 in. x 1/4 in. Shank .035 in. Bit
SH-5—6 in. x 3/16 in. Shank .028 in. Bit
SH-6—6 in. x 1/4 in. Shank .035 in. Bit
SH-8—8 in. x 1/4 in. Shank .035 in. Bit

Screw Starters



For starting screws — a standard driver to be used to tighten. End of tool chucks tightly into screw slot. Will withstand an eight pound pull and automatically release when pressure becomes too great. Duraluminum handles.

No.	Length	Bit Size
SS-2 Screw Starter	2 1/2"	1/4"
SS-5 Screw Starter	5 1/4"	1/4"
SS-10 Screw Starter	9 1/4"	1/4"

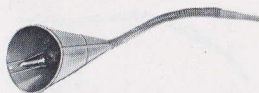
Brake Bleeding Tank



This tank has a pressure gauge, air intake valve and a relief valve on top. Also, dip stick on handle. The hose is the quick coupler type. Comes equipped with two main coupler fittings that are to be used in the adaptors. The unit consists of tank with quick coupler hose. Two universal adaptors and Chrysler adaptor. Adaptor for Falcon as well as Chevrolet and GMC Trucks available upon order. Also, available upon order is the portable air hose and master cylinder filler attachment.

No. BB-22 Brake Bleeding Tank
No. BB-22C Chevrolet and GMC Truck Adapter
No. BB-22F Ford-Falcon Adapter

Funnel Type Transmission Filler



Equipped with a tempered steel cutting blade, an 18" flexible spout with a tapered tip, and an 80 mesh screen for dirt protection. Lacquered finish.

No. OFT-6 Transmission Filler

Universal Chain Wrench



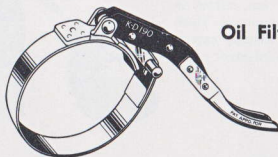
The ability to grip round, hexagonal or square material without slipping makes these tools the most popular in the maintenance industry. Equally good for steamfitters, plumbers, well drillers, etc.

Chain Wrench, 3/4" to 4 1/2". Wt. 1 1/4 lbs.

No.

CW-887—Chain Wrench.

Oil Filter Wrench



This wrench is designed to remove all disposable oil filters on late model cars and trucks. The harder you pull the tighter it gets, yet it will not crush the filter.

No. KD-190 Oil Filter Wrench

Extra Long Additive Spout



This oil can tapper and spout is needed to get into hard-to-reach places on cars, trucks, tractors, boats, lawn mowers, etc. The small blade and clip is a perfect fit for all standard small oil cans. The long spout makes easy pouring into small openings.

No. OCT4 Small Can Spout

Plews Pistol Oilers



These flexible spout oilers with their flexible hollow wire extensions, are especially useful in reaching hard-to-get-at lubricating points.

No.
OC-34D 15" Flex-Spout Oiler.

Capacity 6 oz. Spout 6" long with single cone tipped vent. Finish is copper-plated and copper lacquered. Shipping Wt. 6 lbs. Dozen.

No. OC-05



Capacity 6 oz. Spout 6" long with twin-tipped vent. Finish is polished nickel or equal. Each oiler packed in a display carton with holder. Pressed steel cap.

No. OC-11



These handy bench oilers are suitable for lubrication of all types of factory machines. Model No. 25 is especially well adapted for service station use. 7/8 Pint. 6" spout, twin-tipped Vent.

No. OC-25

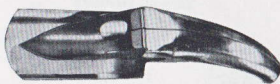


Capacity 1 pint, spout 6" long. Finish is polished nickel. Individually packed in attractive cartons.

No. OC-1125



Oil Can Tapper and Dispenser



For Automatic Pouring of Canned Oils

Hardened steel replaceable cutter cuts easily and drains quickly. It cuts and clamps in easy-fast, one handed operation for automatic pouring. Special curved spout inserts in crankcase intake and drains automatically without further support.

No. OCT-8—Oil Dispenser.

Automatic Transmission Oiler

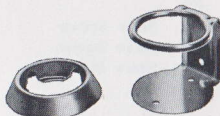


This oil can tapper and pourer with its long flexible spout and complete flow control valve is just the answer for the mechanic filling automatic transmissions and other oil reservoir spots that are hard to get at. It will handle all types of oil and liquids. The flow control valve, as illustrated above, allows the mechanic to turn the flow on and off thus eliminating waste. This oiler is equipped with a hardened steel cutter; it is 24" in over-all length and plated in a highly polished nickel.

No.
ATO-26 Automatic Transmission Oiler

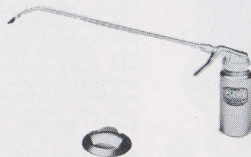
Base and Wall Type holders for use with No. OC05, No. OC11.

No.
OCH-B Base Type Holder
OCH-W Wall Type Holder



Base or Wall Holder

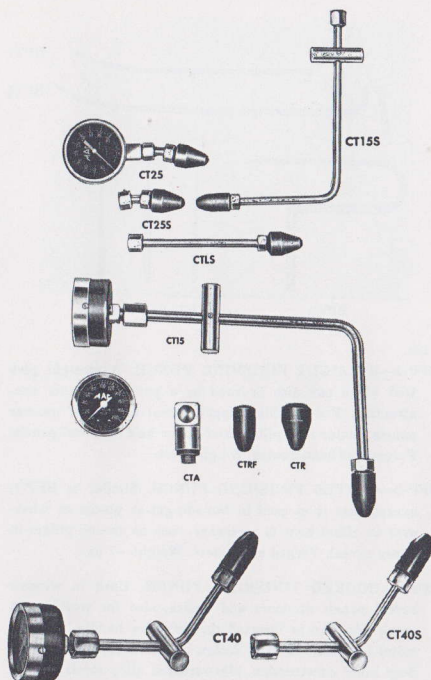
Plews Long Spout Oiler



This oiler has a stem 12" long, with 45-degree angle on the tip. Eliminates burnt hands when oiling generators and hard to get parts. Complete with flared base holder.

No. OC-12 Long Spout Oiler

Compression Testers



Compression Testers

No.
CT15—Ford-Mercury Tester
CT25—Standard Tester
CT25S—Long Stem Tester
CT40—Chevrolet V-8 Tester

Stems

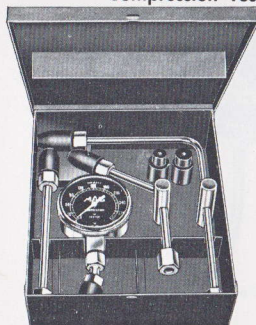
All stems listed below will fit testers shown above.

No.
CT15S—Ford Stem
CT25S—Short Stem for CT25
CT40S—Chevrolet Stem Only
CTLS—Long Stem Only

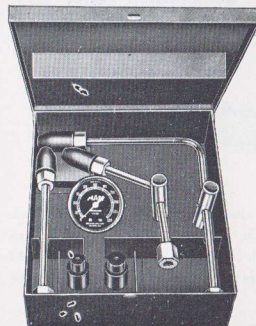
Parts & Attachments

No.
CTA—Right Angle Adapter
CTC—Valve Core Only
CTR—Rubber Tip Only
CTRF—Rubber Tip Only (Ford)

Compression Tester Sets



No.
CT-100S Compression Tester Set
CTB-300 Metal Box Only.

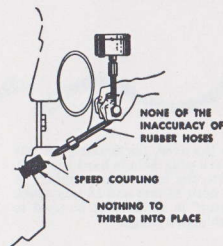


No.
CT-200S Compression Tester Set.
CTB-300 Metal Box Only.

This set as shown contains a No. CT25 gauge with short stem. Also, three interchangeable stems, No.'s CTLS, CT40S, and CT15S. Included are two expanding cones No.'s CT14C and CT18C. All of the above complete in metal box makes this a universal set.

This set as shown contains a No. CT40 gauge with stem. Also, two interchangeable stems, No.'s CTLS and CT15S. Included are two expanding cones No.'s CT14C and CT18C. All of the above complete in metal box makes this a universal set.

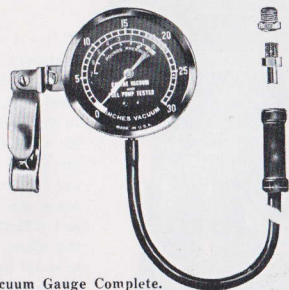
Expanding Cones for High Compression Pressures



Simple to apply. Insert expanding cone in plug hole and then push tester stem into hole in cone.

No.
CT18C—Expanding Cone for 18MM Spark Plugs
CT14C—Expanding Cone for 14MM Spark Plugs

Vacuum Gauge



No.
VG5 Vacuum Gauge Complete.

Compression Tester

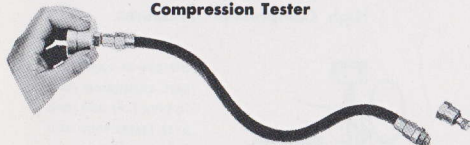


This is the easiest to use compression tester ever developed. Just screw regular adaptor into sparkplug hole, then snap tester on in angle desired. Compression reading held until released by valve. Registers from zero to 300 P.S.I. Chrysler adaptor available.

No. CT75 Compression Tester with Regular Adaptor

No. CT817 Chrysler Adaptor Only

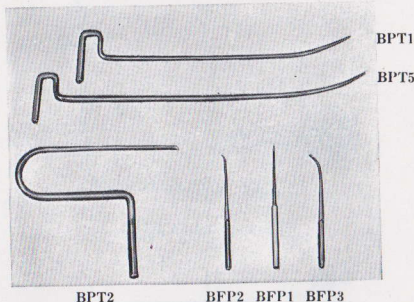
Flexible Drive Compression Tester



This Compression Tester covers the need, particularly on late model automobiles where the spark plug hole is hard to reach. You merely thread the tester into the hole "finger tight." A wrench is not necessary. Use in both 14 mm and 18 mm spark plug holes. A "long reach adaptor" is included to be used to test engines which use long reach spark plugs.

#CT-45 Compression Tester

Special Body Tools



No.

BFP-1—STRAIGHT FINISHING PUNCH. A straight pick tool which can also be used as a punch for inner construction. For finishing upper reveal section of quarter panels, center lock pillars and upper half of cowl panels. Forged and heat-treated. Weight—7oz.

BFP-2—CURVED FINISHING PUNCH. Similar to BFP-1, except that it is used in hard-to-get-at places or wherever an offset blow is necessary, such as around pillars in upper reveal. Forged alloy steel. Weight—7 oz.

BFP-3—HOOKED FINISHING PUNCH. Used in window reveal panels of doors and bodies, also for working on trunk lids. Can be inserted through door handle holes for metal finishing. Hooked design adapts it for use through deep inner construction. Heat-treated alloy steel. Weight—7 oz.

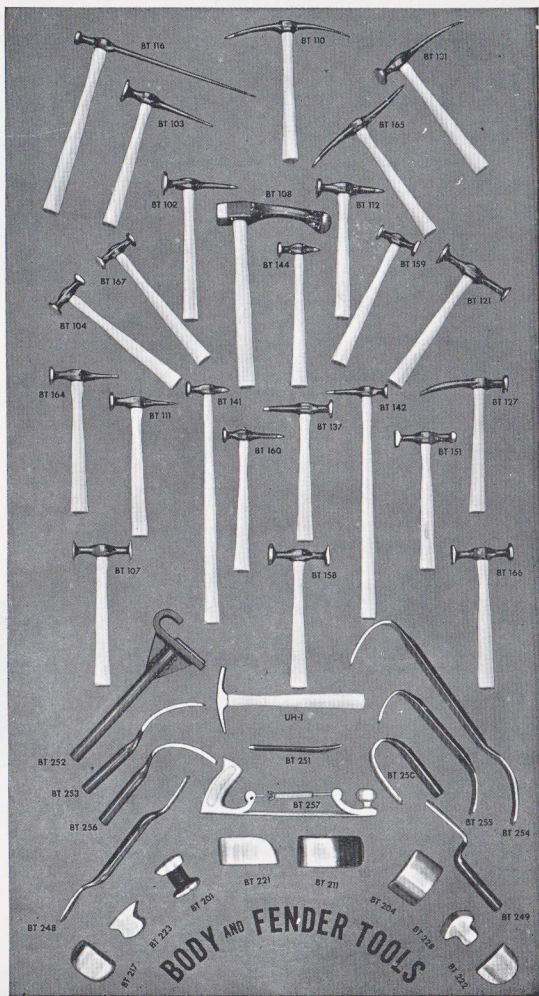
BPT-1—CURVED PICK, SHORT. A medium length curved, pointed pick for working through inner construction or lower part of frame. Turning the handle between outside panel and inner construction forces out small bumps. Shank length 22". Weight 1 lb. 14 oz.

BPT-2—DEEP THROAT STRAIGHT PICK. Designed for raising small low spots in center section of trunk lid or in door panel behind inner construction. Forged, alloy steel. Weight—2 lbs. 14 oz.

BPT-5—CURVED PICK, LONG. Similar in design and purpose to BPT-1 but with a longer shank (28") for greater reach through inner construction and frame. On many minor body repairs these tools make removal of trim or inner construction unnecessary. Forged, heat-treated. Weight—2 lbs. 5 oz.

Body and Fender Tools

- BT102 **PICK HAMMER**
1 1/2" Dia. Flat Face; 3 1/4" Pick
- BT103 **PICK HAMMER**
1 1/2" Dia. Flat Face — 5 1/2" Pick
- BT104 **FLAT FACE HAMMER**
Flat Faces, Dia.: Sq. 1 1/2"; Rd. 1 1/8"
1 1/2" Clearance, Face to Handle
- BT107 **FLAT FACE HAMMER**
Flat Faces, Dia.: Sq. 1 1/2"; Rd. 1 3/8"
- BT108 **BUMPING HAMMER**
Wt. 3 1/2 lbs. "Neck" 6 3/4"
- BT110 **CURVED PICK & CHISEL**
Pick 4 1/2"; Chisel 4 3/8"
- BT111 **CROSS CHISEL HAMMER**
Cross Chisel, 4" long. Flat Face, Dia.: 1 1/2"
- BT112 **PICK HAMMER**
Pick 2 1/2" long. Flat Face, Dia.: 1 1/2"
- BT116 **LONG PICK HAMMER**
Pick 14" long. Flat Face, Dia.: 1/2"
- BT117 **Same as BT116 (except Curved Pick)**
- BT121 **FLAT FACE HAMMER**
Small Rd. Flat Face 1 1/4" Dia.
Large Rd. Flat Face 1 1/2" Dia.
- BT127 **THICK CHISEL HAMMER**
Flat Rd. Face 1 3/8" Dia. Thick Chisel, 4 1/4" long
- BT131 **CURVED PICK HAMMER**
Flat Rd. Face, 1 3/8" Dia. Curved Pick, 5 1/4" long
- BT137 **BLUNT POINT HAMMER**
Flat Rd. Face 1 1/2" Dia. Blunt Point, 2 3/4" long
- BT141 **PICK HAMMER—Long Handle**
8 oz. Short Pick, 1 1/2" long. Rd. Flat Face, 1 1/8" Dia.
- BT142 **PICK HAMMER—Long Handle**
9 oz. Long Pick, 3 1/4" long. Rd. Flat Face, 1 1/8" Dia.
19 1/2" Handle — Good reach
- BT144 **SHARP POINT HAMMER**
Flat Rd. Face, 1 1/2" Dia. Sharp Point, 1 1/8" long
- BT151 **DOUBLE END BEADING HAMMER**
1 1/8" Hammer ends opposite each other, one horizontal and one vertical. Overall head length 4 3/4".
Wt. 3/4 lb.
- BT158 **SHRINKING HAMMER—Large**
16 oz. Flat Faces, Dia. Sq. 1 1/2", Rd. 1 1/4"
Rd. Face cross grooved
- BT159 **SHRINKING HAMMER—Small**
8 1/2 oz. Flat Faces, Dia. Sq. 1", Rd. 1 1/4"
Rd. Face cross grooved
- BT160 **PICK HAMMER**
7 1/2 oz. Flat Rd. Face 1 1/2" Dia. Pick 3 3/8" long
- BT164 **SHRINKING CHISEL HAMMER**
Flat Rd. Face 1 1/2" Dia. Chisel, 2 3/4" long
Rd. Face cross grooved
- BT165 **OFFSET PICK HAMMER**
4 1/2" Offset Curved Picks
- BT166 **OVAL FACED HAMMER**
20 oz. Drop Forged
Rd. Face Oval runs with handle
- BT167 **OVAL FACED HAMMER**
9 oz. Round Face Oval runs with handle
Drop forged
- BT201 **GENERAL PURPOSE DOLLY**
44 oz. 2 1/2" long, 2 1/2"
- BT204 **ROOF RAIL DOLLY**
Roof Rail and Bead Dolly, 40 oz. 3 1/2" x 2 1/2"
- BT211 **COMB. SPOON DOLLY**
35 oz. "Comma" Dolly, 5 1/2" x 2 1/2" x 1 1/4"
- BT217 **LOW CROWN DOLLY**
25 oz. 1" high, 3 1/4" long
- BT221 **TOE DOLLY**
35 oz. 1" high, 4 1/2" long, 2 1/4" wide
- BT222 **HEEL DOLLY**
32 oz. 1 1/2" high, 3" long, 2" wide
- BT223 **GENERAL PURPOSE DOLLY**
40 oz. "Railroad" Dolly
2" high, 2 1/4" long, and 2 3/4" wide
- BT228 **GENERAL PURPOSE DOLLY**
35 oz. Easy to grip, 2" high, 2 1/2" long, 2 3/4" wide
- BT248 **DOOR HANDLE SPOON**
16" long. Spoon ends 1 1/2" wide x 3 3/8" long
- BT249 **SLAPPING SPOON**
2 lb. 10 1/4". Face 1 1/4" x 4 1/4" x 1 1/2"
- BT250 **COWL & FENDER BRACKET SPOON**
2 lb. Face 1 1/2" x 5 1/2". Handle 3/4" Octagon 5" long
- BT251 **PANEL CUTTER**
7 1/2" long, 1/2" Octagon stock, with 1 1/4" Taper on cutting end
- BT252 **FLANGE TOOL**
5 lb.
- BT253 **SINGLE BLADE SPOON**
14" length. Face 1 1/2" x 5 1/2". Handle 3/4" Octagon, 6" long
- BT254 **LARGE SPOON**
19" length. Faces are 1 1/2" x 5". Center handle is 10" Octagon Steel
- BT255 **SMALL SPOON**
11 1/2" long. Faces are 1 1/4" x 3 1/4" long
Center handle is 6" Octagon Steel
- BT256 **CURVED SPOON**
Is 10 1/4" overall length. Face is 1 1/2" x 5 1/2"
Handle is 6" Octagon Steel
- BT257 **FILE HOLDER**
Upright, Adjustable Wing-nut File Holder
Wt. 1 1/4 lbs.
- UH-1 **UPHOLSTERER'S HAMMER**
High Polished, Drop Forged
Magnetic Hammer, W/O Claw
- BT1036 **DINGING SPOON**
- BT1052 **SPOON DOLLY**

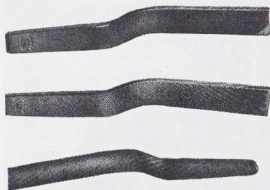


BT 1052



BT 1036

Bumping Files



A labor saving tool for use in auto body repair shops. Use like a hammer with a dolly block to slap out dents. They have a tendency to make metal contract to its original shape, will not expand metal. (Not Replaceable)

No.		
BT2088	Flat Coarse File	12"
BT2089	Flat Medium File	12"
BT2090	Half-Round Medium File	12"
BT2612	Complete Set of above three Files.	

File Holders



No. FH 22—Old Smoothie Holder



No. FH 11—File Holder

Skroo-zon File Handle



You can't pull off a Skroo-zon Handle because it screws on. Cuts its own thread and will not split—it's everlasting. Saves accidents—indestructible.

No.	
FH- 6—	For 6" file
FH- 8—	For 8" file
FH-10—	For 10" file
FH-12—	For 12" file
FH-14—	For 14" file

Sheet Metal Cutter



A fast, efficient time saving metal cutter, cuts up to 16 Gauge metal. Can be used where snips cannot be used, cuts round or square holes, formed or flat metal.

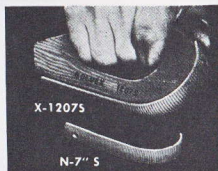
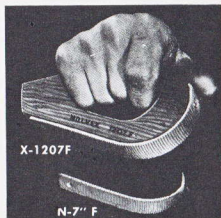
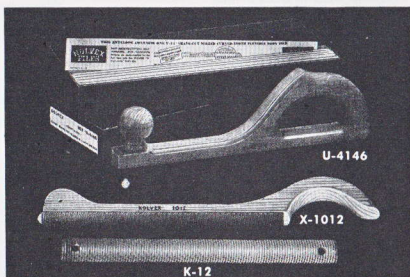
No. RMC-2

Mill, Flat & Round Bastard Files



No.	
MBF- 8—	8" Mill Bastard File
MBF-10—	10" Mill Bastard File
MBF-12—	12" Mill Bastard File
FBF-10—	10" Flat Bastard File
RBF- 8—	8" Round Bastard File
RBF-10—	10" Round Bastard File
RBF-12—	12" Round Bastard File

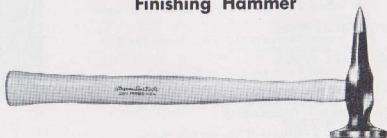
Nolvex Body and Fender Files



No.
X-1012 —With K-12 Blade
X-1207F—With N-7F Blade
X-1207S—With N-7S Blade
FH1012 —Handle only
All blades
can be ordered separately
No. U-14 Individual Files only.
No. U-414 Handles only.

No. U-4146—Set complete including six files and holder. Files as well as holder can be purchased individually.

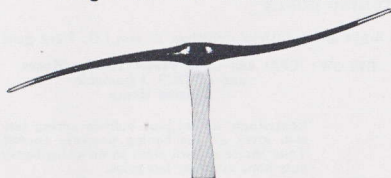
Finishing Hammer



No. BT173 Finishing Hammer



Long Offset Thin Pick Hammer



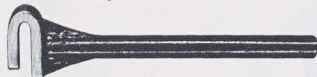
No.
BT-120—Pick Hammer

Long Reach Dinging Hammer



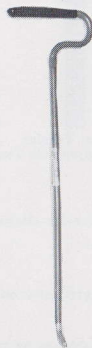
No. BT-132—Dinging Hammer

Bumper Bracket Tool

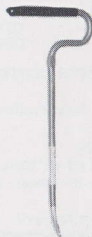


No. BT-260—Bumper Tool

Short Body Picks



BPT-9



BPT-10

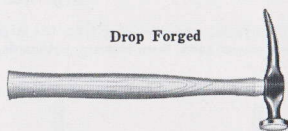


BPT-11

The above illustrated short picks are now a necessity to speed up body work on new compact cars, on low car doors and in hard to reach areas. There are three (3) different styles as shown in this complete set.

- No. BPT-9 18" Round Point Pick
- No. BPT-10 12" Round Point Pick
- No. BPT-11 16½" Chisel Point Pick
- No. BPTS Complete Set of Three

Curved Pick Light Finishing Hammer



Drop Forged

Flat Rd. Face, 1-3/16" Dia. Curved
Pick, Length, 3". 7-1/2 ozs.

No.
BT146—Hammer

Hyland Hones

A truly fine hone developed for the Automotive Maintenance Craftsman. Its patented rubber-impregnated abrasive hones Hydraulic Brake Cylinders to a fine finish in a matter of seconds. Tension of the Honing Stones is easily regulated by adjustment. A guide is provided for service in difficult places. Special stones are available for step cut and blind brake cylinders.



No.
HH60 Services Brake Cylinders ¾" to 2".
Services Chrysler blind cylinders.

HONING STONE ASSEMBLIES

MODEL NO. 60

Part No. S-605—Honing Stone Assy. Special for honing step-cut and blind brake cylinders. 3/4" to 1-3/16". Fits Model 60. Services Chrysler blind cylinders.

Part No. L-608—Honing Stone Assy. Special for honing step-cut and blind brake cylinders. 1" to 1-1/2". Fits Model 60. Services Chrysler blind cylinders.

Part No. L-850—Honing Stone Assy. Services master brake cylinders. 1½" to 2". Fits Model 60.

Part No. L-650—Honing Stone Assy. Services master brake cylinders 1" to 1-1/2". Fits Model 60.

Part No. B-120—Flexible Shaft Assy. Fits Model 60 Hone.

Part No. B-125—Hone Bdy Assembly.

Cylinder Resurfacing Tool



A fast and convenient tool with wide range, flexible joint drive, and adjustable cutting tension. An all-purpose 280-grit hone designed for brake cylinder and recommended for resurfacing of small engines, up to 2¼" bore. Offers fast, easy cutting with high or low-speed drills. Capacity is ¾" to 2¼" dia. Strongly built, self-aligning, self-centering. Stones permanently cemented to steel backing shoes. Quick change to new stones is a feature. Built to bottom in blind holes or resurface step-cylinders.

- No. CF-63—Cylinder Hone
- No. CF63-1—Set of three Replacement Stones, 280 Grit
- No. CF63-14—Set of three Replacement Stones, 400 Grit



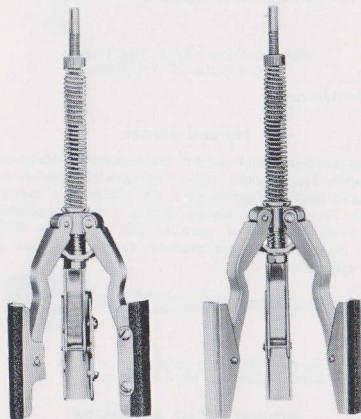
CLARK-FEATHER HONES—DEGLAZING AND RESURFACING

NOTE: ALL MODELS ARE BOTTOMING HONES

For cylinder surfacing and deglazing from the largest truck cylinders to brake and industrial cylinders 17 mm I.D. Very good for engines of power saws, lawn mowers, outboards, etc.

BELOW: CF61 and CF62 Preset Tension Honers and CF62CS Adjustable Tension Honers

Centrifugal action plus built-in spring tension gives all the honing pressure needed. Your choice of two sizes in an extra-heavy duty hone at a very low price.



No. CF-60C

No. CF-60CS

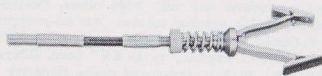
ABOVE: Adjustable Honers CF-60C and CF-60CS

Adjustable to the tension wanted for the speed of cutting and wall finish you want. Identical design except for kind of abrasive used.

CF-60C Specifications—An adjustable abrasive cloth hone of real economy; fast-change med. grit abrasive cloth is 3" long. Capacity is 2" to 5¼" Cylinders. Can be modified to use stones if desired.

CF-60CS Specifications—Adjustable abrasive stone hone. Capacity is 2" to 5¼" diameter Cylinders. Med. grit stones 3" long (2 with set) and 1 oil wiper pad.

Foreign Car Brake Cylinder Hone

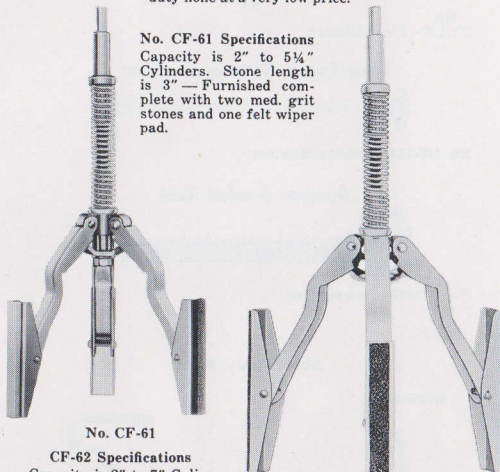


Capacity of 17 mm to 2". Will fit cylinders of smaller diameter, such as Volkswagen.

No. CF-63-F

No. CF-63-1 Med. Grit Stones

No. CF-63-14 Fine Grit Stones



No. CF-61

CF-62 Specifications

Capacity is 2" to 7" Cylinders. Stone length is 4"—Furnished complete with two med. grit stones and one oil wiper pad.

CF62—Preset Tension
CF62CS—Adjustable Tension

REPLACEMENT ABRASIVE CLOTHS

For CF-60C Honers:

CF-60C-1—6 sets of 3" long medium grit abrasive cloths, 3 cloths per set.

REPLACEMENT STONES

For CF-60C, CF-60CS and CF-61 Honers:

CF-61-12S—Set of two 3" stones, medium grit, and one felt wiper pad.

CF-61-14S—Same, except fine grit.

(NOTE: CF-61-12S or 14S replacement stones may be used also for replacing the cloth pads of CF-60C or worn out stones of the CF-60CS honers. Above replacement sets may be used also on the CF-62 tool.)

For CF-62 Honers and CF62CS Honers:

CF-62-12S—Set of two 4" stones, medium grit, and one felt wiper pad.

CF-62-14S—Same, except fine grit.

(NOTE: We do not recommend use of stones longer than specifically listed for any above tool. The user may, however, use shorter stones. Example: CF-61-12S replacement set in the CF-60C or CF-62 Hone.)



Solid Type Reamers For Popular Make Cars



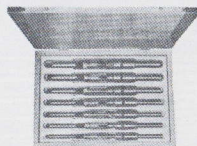
These reamers have milled flutes on the front end to remove burrs or excess metal and allow the pilot to enter freely. Both ends of the reamer are ground to act as pilots. This insures perfect alignment.

Number	Description	Size	Length Overall Inches
68-A	All A, B, 6 & V-8 Ford Pass. Cars 1928-53. F1, F2 & F3 ½-¾ Ton Ford Trucks including 1952. Mercury Cars 1939-48 & 1952-53 .....	.8135	14"
71	Ford Trucks 1938-58 F4, F500 & F600, 1, 1½ & 2 Ton	1.130	14"
72	Ford Trucks F100 and F250 1953-60..	.8605	12¾"
73-A	Chevrolet Trucks Cab-Over Engine, Heavy Duty and Dubl-Duti; ¾, 1, 1½, 2 & 2½ Ton 1940-60 G.M.C., Mack, Studebaker & White Trucks using 1.109 King Bolts	1.111	14"
74-A	Chevrolet Pass. Cars 1934-54 with Ind. Wheel Suspension; 1941-59 ½ Ton Trucks; Corvette 1953-60 .....	.867	12½"
78-A	Lincoln Zephyr & Lincoln 1937-51. Mercury 1949-51. Dodge Trucks VF & WF Series 1940-47 .....	.938	14½"
82	Chevrolet 1946-59, 1½ Ton (except Heavy Duty, C. O. E. & School Bus); 1946-58, ¾, 1 Ton (except Dubl-Duti) .....	.9225	12¾"
82+10	Same as No. 82.....	.010 Oversize	.9325 12¾"
82+20	Same as No. 82.....	.020 Oversize	.9425 12¾"
83	Ford Trucks 1953-60: F350, P350-400 .....	.924	14½"
84-A	Plymouth 1939-56. Dodge 1938-56 (except 7 & 8 Pass. Sedan & Limousine). Many Chrysler & DeSoto models. All Kaiser, Frazer & Henry J 1946-55. ½, ¾ & 1 Ton Dodge Trucks .....	.7965	14"
89-A	Buick 1942-56 (except 80, 90 Models). Oldsmobile 1937-56. Pontiac 1941-57 .....	.863	12½"

Special sizes (within the above range) will be furnished at an additional NET cost.

79	Set of two reamers consisting of: No. 79-1 and No. 79-2 For Timken Axle Nos. 30000 and 31000 Series. Reo & White Trucks using 1.109 King Bolts	1.1105	14½"
80	Set of two reamers consisting of: No. 80-1 and No. 80-2. For Ford Trucks F7 & F8 2½ & 3 Ton 1945-56. Timken Axle Nos. 32000 & 33000 Series. Clark Axle Model F-308. Dodge, Ford School Bus, Kenworth, Reo, Studebaker, White & Yellow Coach Trucks using 1.234 King Bolts	1.2355	16½"

Improved Precision Pilot Reamers and Sets



These reamers have a double taper, counter sunk pilot bushings to get perfect alignment. This affords the best way to ream king bolt bushings, piston pin bushings, spring shackle bushings, water pump bushings, pitman arm bushings, and tie rod bushings. Furnished individually or in sets as follows:

Reamer Sets

Set No. 16B—Contains four reamers, 1-B to 4-B, in neat metal box.

Set No. 17B—Contains seven reamers, 5-B to 11-B, in neat metal box.

Individual Reamers

Number	Size	Number	Size
1-B	7/16"- 1/2"	9-B	.915"-1"
2-B	1/2" - 9/16"	10-B	.985"-1-1/16"
3-B	9/16"- 5/8"	11-B	1-1/16"-1-1/8"
4-B	5/8"- 11/16"	12-B	1-1/8"-1-1/4"
5-B	11/16"- 3/4"	13-B	1-1/4"-1-3/8"
6-B	.730"-13/16"	14-B	1-3/8"-1-1/2"
7-B	13/16"- 7/8"	15-B	1-1/2"-1-5/8"
8-B	.860"-15/16"	15-BA	1-5/8"-1-13/16"

Ridge Reamer—Announcing a New and Revolutionary Principle in Ridge Reamers

The principle of removing the ridge is the same as is employed when using an expansion reamer; therefore, a smooth wall surface is achieved.

The outside FINGERTIP ADJUSTING screw speeds up the resetting operation.

Featuring a
CARBOLOY TIPPED
CUTTER BLADE

That services many cylinders without re-sharpening.

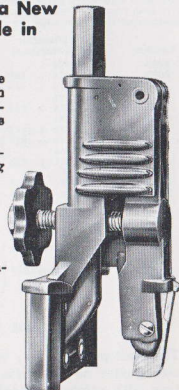
No.

RR-104—Ridge Reamer
2½" to 4½" Cap.

SF-2—Extra Cutter Blade Only

SP-2—Small Side Plate

SP-4—Large Side Plate



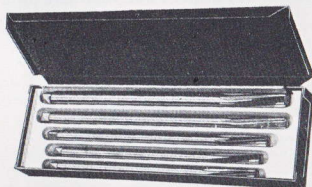
Taper Reamer



This reamer is for general use such as enlarging oversize holes, lining up holes, etc. A useful tool that every mechanic should have in his box.

No. TR-131 Taper Reamer

Solid Type Valve Guide Reamer Sets



- Number**
- 516R** For Comet, Falcon and Wisconsin Motors. Contains 3 reamers, numbers 2005 (5/16" + .003), 2007 (5/16" + .015), 2009 (5/16" + .030), in metal box.
- 1132** For Chevrolet, Corvair, Edsel, Ford, Lincoln, Mercury, Pontiac, Cars; Chevrolet, Ford and G. M. C. Trucks. Contains 3 reamers, numbers 2011 (11/32" + .003), 2013 (11/32" + .015), 2015 (11/32" + .030), as illustrated, in metal box.
- 383** For Chevrolet, Edsel, Ford, Lincoln, Mercury, Cars; Chevrolet and Ford Trucks. Contains 3 reamers, numbers 2018 (3/8" + .003), 2021 (3/8" + .015), 2027 (3/8" + .030), in metal box.
- 3855** For Chrysler, Dart, DeSoto, Dodge, Plymouth, Valiant, Cars; Dodge and G. M. C. Trucks. Contains 3 reamers, numbers 2019 (3/8" + .003), 2021 (3/8" + .015), 2027 (3/8" + .030), in metal box.
- 716R** For Chevrolet and Ford Trucks. Contains 3 reamers, numbers 2031 (7/16" + .003), 2032 (7/16" + .015), 2033 (7/16" + .030), in metal box.
- 1015** Set of 5 standard size reamers, numbers 2004 (5/16"), 2010 (11/32"), 2016 (3/8"), 2030 (7/16"), 2037 (1/2"), in metal box.
- 1016** Set of 4 standard size reamers, numbers 2004 (5/16"), 2010 (11/32"), 2016 (3/8"), 2030 (7/16"), in metal box.

Solid Type Valve Guide Reamers



Standard sizes for domestic and foreign cars and trucks. Oversizes for engines with integral cast valve guides.

Our solid type valve guide reamers are made of high quality tool steel, properly heat treated. Unequally spaced flutes eliminates chattering and permits sharpening to a keen edge for free cutting.

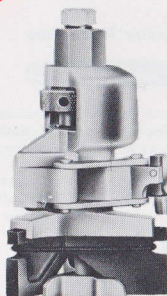
Number	Diameter Fractional	Diameter Decimal	Diameter Metric	Length
2004	5/16	.3125	7.94mm	7
2005	5/16 + .003	.3155	8.01mm	7
2007	5/16 + .015	.3275	8.32mm	7
2009	21/64	.3245	8.20mm	7
2010	11/32 + .030	.3437	8.73mm	7
2011	11/32 + .003	.347	8.81mm	7
2013	11/32 + .015	.359	9.12mm	7
2015	11/32 + .030	.374	9.50mm	7
2016	3/8	.375	9.53mm	7
2018	3/8 + .003	.3775	9.59mm	7
2019	3/8 + .005	.3795	9.64mm	7
2021	3/8 + .015	.3895	9.89mm	7
2027	3/8 + .030	.4045	10.27mm	7
2030	7/16	.4375	11.11mm	7
2031	7/16 + .003	.441	11.20mm	7
2032	7/16 + .015	.453	11.51mm	7
2033	29/64	.453	11.51mm	7
2037	1/2	.500	12.70mm	9

Valve Guide Reamers

The most practical way to remove carbon. True up and oversize guides to eliminate sticking valves. Adjustable blade type with extension shank.



Number	Size Inches	Length Overall Inches	Length of Blade Inches
395	1/4 - 9/32	8	3-1/2
398	11/32 - 3/8	8	4-1/4
399	3/8 - 13/32	8	4-1/2

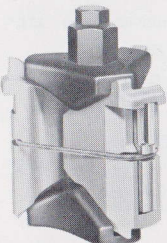


Ammco Ridge Reamer

This is a new style Ridge Reamer with a range of 3" to 5". This reamer handles all modern engine blocks . . . canted, short stroke, and conventional within range.

You will find this reamer easy to use—no complicated adjustments with an extra-tough carbide cutter which will cut steel sleeves. The cutting tension is adjustable.

No. R-7100 Ridge Reamer



Ammco Ridge Reamer

Here is a fast, accurate, easy to use reamer with a range of 2 1/2" to 5". Contains a long life carbide cutter which will cut sleeves with self-centering jaws. The reamer can be removed fast and can be checked without removing tool from cylinder.

No. R-2100 Ridge Reamer



Burring Reamer

An indispensable tool for heater hose holes under dash and seats, spotlight installations and for general use. A quality Reamer of high grade steel and treatment. 1/2" Shank. Can be used in 1/2" electric drills.

No.
BR-386 1/4" To 1 1/4"

Repairman's Reamers



A long tapered hand reamer for use wherever holes are to be enlarged in sheet metal. Both sizes are convenient T-Handle type. The larger reamer No. RR57, is designed with a squared end drilled hole allowing use of T-Handle, Wrench, or Socket.

No.
RR56 Reamer—Range—1/8" to 1/2"
RR57 Reamer—Range—7/16" to 1"

Knock-Off Wheel Pullers



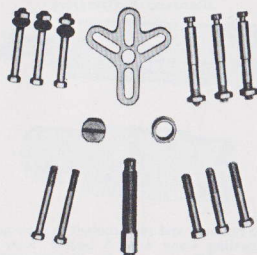
To use the "axle-type" wheel puller simply screw it on end of axle shaft until it bottoms, then by striking the end of the puller a sharp blow with a heavy hammer the wheel is loosened. For best results jack up opposite wheel.

We do not claim any superlative powers for our wheel pullers, but we do feel that we have improved a tool that is misused more than any tool in a mechanic's box. Our pullers have been put to the test by the men who have to use them every day.

No.	Thread	Length	Weight	Hex Size
W-1	5/8-18	2½	10 ozs.	1½
W-2	3/4-16	2½	10 ozs.	1½
W-3	7/8-14	2½	14 ozs.	1½
W-4	1-14	2½	14 ozs.	1½

KW-12 Set consists of one each Nos. W-1, W-2, W-3 and W-4.

Universal Steering Wheel Puller



This is a steering wheel puller set which will pull most late model steering wheels. Set consists of four sets of studs, including a special set for Buick—a body, forcing screw and an adaptor.

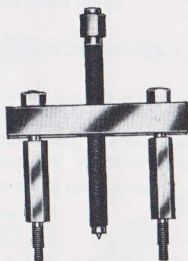
No. SP-40 Steering Wheel Puller
No. SP-40C Cadillac Adaptor

Timing Gear Puller

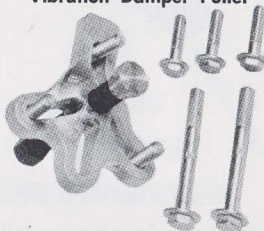
A very handy tool for pulling timing gears and all other gears that have tapped holes. The sliding fingers enable the tool to handle gears of all widths, and for extra service, the 6" side screws are machined to handle the two most used thread sizes, ½-16 and 5/16-18. Length of body 6½". Cadmium plated. Screw length—8". Diameter ¾" with N.F. thread.

No. TP-5

TP-5B—Side Screws for TP-5.



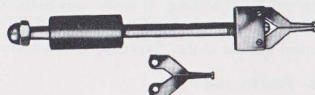
Harmonic Balancer or Vibration Damper Puller



This is a Harmonic Balancer Puller, designed with 4 slots enabling the tool to be used on Harmonic Balancers where they have 2 or 3 tapped holes in the gear. This Puller can be used on most cars and trucks. It comes equipped with 3 sets of side screws in order to handle various diameters. The center screw is 6-1/2" overall.

No. TP15 Harmonic Balancer Puller

Universal Pilot Bearing Puller



This bearing puller handles sleeve type bearings from ¼" to 1½" inside diameter — flywheel bearings, pump bearings, generator bearings, etc. Finger tip adjustment quickly sets the puller to tight fit and with few taps of sliding hammer the bearing is removed. Equipped with "Regular" jaws. Short Thin jaws may be obtained as required.

No. BP-223 — Complete — Reg. Jaws
No. BP-223J — Reg. Jaws
No. BP-223JS — Special Thin Jaw



Shock Body Slide Hammer Puller



This tool is designed to be used to remove body creases and dents without disturbing upholstery head liner and body hardware. Tool pulls dents, rocker panels, back panels, quarter panels and door panels without removing any inner panels.

Order No. BT-400 Slide Hammer Puller

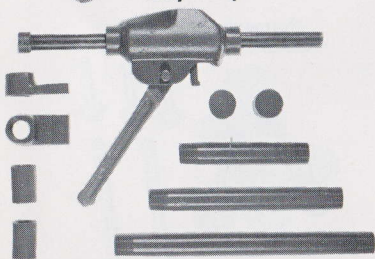
Transmission Shaft Sleeve Puller Attachment



This attachment is used in conjunction with our #BT-400 Slide Hammer Puller. You merely screw on the end of the puller making the tool ready to pull out transmission shaft sleeves.

No. BT-400-S Sleeve Puller Attachment

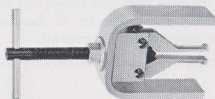
Body Body



The Body Body is made of malleable iron, electrically welded, the attachments are heavy duty steel, the jack is a fool-proof friction type, complete kit as pictured above. This tool pushes, pulls, straightens, aligns, holds and does many other jobs.

No. BT500 Body Body

Pilot Bearing Puller



This puller is designed to remove fly wheel pilot bearings on automobiles, trucks and tractors where working space is limited. The puller is 7 1/4" long. It is also very useful in pulling bearings and bushings on motors, starters, generators and magnetos. The steady pull with the screw type puller allows removal without shock. Capacity, 1/2" minimum, 1 1/2" maximum.

No. BP-150 Pilot Bearing Puller

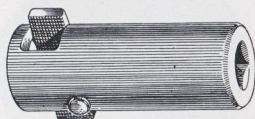
U-Joint Tool



This tool is designed to do the whole job of disassembling and assembling; pulls the trunnion bearing cup. No hammer, no damage, no danger. Makes your u-joint servicing more profitable. The gator-grip collet is the secret to the amazing power.

No. UJ-100 U-Joint Tool

Wedge Stud Puller and Setter

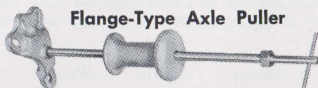


Adaptable to both power and hand use, the wedge type stud tool requires but a small turning radius. A single specially serrated tapered wedge tightens grip as pressure is applied, yet releases easily. Handles studs up to 9/16" diameter. All alloy steel construction, 1/2" square drive; 1-5/16" diameter. 3-1/2" long. Chrome plated.

No.

SR-25 Stud Remover.

Flange-Type Axle Puller



This puller is designed to handle late model Chevrolet, Ford, Pontiac and Mercury cars. The puller will handle any job where the bolt circle is in a range from 4-1/2" to 5-1/2", also where the stud design is either 4, 5 or 6 studs in the circle.

No. SP30 Puller

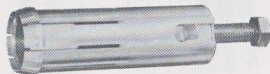


No. SP30YV — Yoke for Lancer and Valiant



No. SP30AR — Adapter for Removing Axle Shaft — Rambler and Chrysler

Bushing Puller and Driver Set Standard & Overdrive



Now bushing removal and replacement is easy and profitable. No more chiseling away 4 or 5 hours! Now it's easy to replace bushing while transmission is disassembled — when bushing is worn — when installing new grease seal — when installing new universal joint.

- It does a 4 to 5 hour job in 15 minutes!

- It pays for itself with one job!

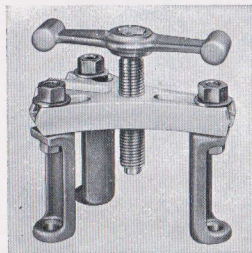
No. TBP2 For 1960 Ford-Falcon and Mercury-Comet.

No. TBP2 For 1949-1960 Fords; 1949-1960 Mercury; 1955-1960 Chevrolet Passenger Cars and Chevrolet 1/2-Ton Trucks; 1955-1960 GMC 1/2-Ton Trucks; 1958-1960 Studebakers with regular transmissions.

No. TBP3 For 1955-1960 Mercury; 1949-1958 Lincoln; 1957-1960 Fords with large transmissions and also 1958-1960 Studebakers with large transmissions.



Springfield Universal Wheel, Hub and Gear Puller



Pulling Wheel Hubs from Studs

Designed for service station use and will pull all automobile hubs that have wire, disc or demountable wheels. Easily adjusted for any spread and will pull a five, six or seven studded hub.

Taken apart, this puller fits into your tool box or is easily mounted on your shop tool board.

No.

500 Complete with wrench

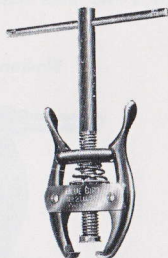
500F Ford attachment (available on order)

500W Wrench only

Universal Clamp Lifter

A super-powerful tool designed and guaranteed to remove the most badly corroded clamp. Grips from below if there's room — otherwise the sharp points of jaws engage sides of clamp with a vice-like grip. Double cam action. Simple operation — positive action. Packed in telescope box.

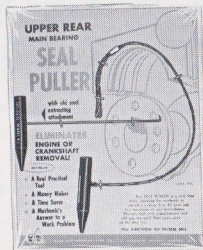
No. BP-21



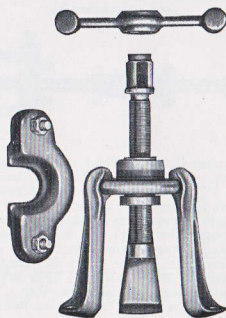
Upper Rear Main Bearing Seal Puller

This Seal Puller is a real time saver, enabling the mechanic to convert an otherwise 8 to 14 hour job to a maximum of 1 to 2 hours. This tool will pay for itself four times over on the first job. It is the mechanic's answer to a work problem. Eliminates engine or crankshaft removal.

No. PE-1 Seal Puller



Universal Wheel Hub Puller



The WHEEL HUB PULLER is designed to handle a large range of work without a large number of extra adaptors and parts being necessary. The extra long jaws and extra long screw makes it possible to handle more work. The Tool has drop-forged jaws and links and a solid center hub. No cast iron parts are used. You will find the WHEEL HUB PULLER the correct tool for trouble-free removal of wheel hubs.

Tool may be used to remove tractor flywheels. It can also be used to remove gears having cap screw holes in them. It can be mounted on your work bench so as to form a handy shop press. Steel plates can be made with holes in them and by placing these plates behind pulleys on various farm machinery and then attaching puller many sizes of pulleys can be easily removed.

No.

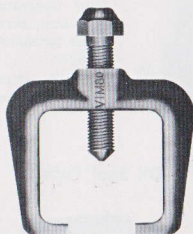
UV-20 Puller complete with three arms

UV-20W Wrench only

UV-22 Ford attachment

(Extra arms carried in stock)

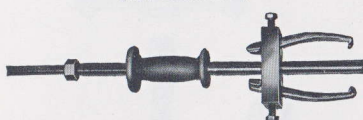
Pitman Arm Puller



This puller is designed to remove the Pitman arm on Ford and almost all other late model cars and light trucks. 2-1/4" reach; 2-3/8" clearance; 1-9/32" opening.

No. PA-80 Pitman Arm Puller

Combination Slide Hammer Puller (and attachments)



A combination slide Hammer which is a complete tool in itself or may be used with the axle adaptors shown here below. The shaft has 6" of thread and may be used as a forcing screw. On most applications, however, the 2 pound knocker easily loosens and removes the tightest gear or bearing. The fingers (4½" under the body) will handle gears up to 4½" O. D. These fingers may also be reversed for pulling bearing races and grease seals. Center screw 22" long, ¾" diameter with N.F. thread. **FOR FLANGE-TYPE AXLE PULLING** ... use above slide hammer assembly, with UV20 Puller and SP25G Adapter. (Reverse UV20 Jaws on hub.)

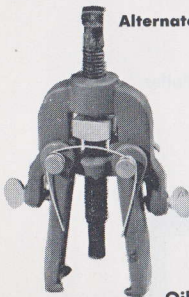
No. SP-25

Axle Shaft Adaptors



These axle shaft adaptors are for use with the No. SP-25 Slide Hammer Puller. Sizes available fit practically all axles.

No.	Thread Size	No.	Thread Size
SP-25A	5/8" - 18	SP-25E	7/8" - 14
SP-25B	3/4" - 16	SP-25G	1" - 14



Alternator Bearing Puller

This is a special puller which is designed to service the alternator and auto-lite pulleys. Also, Ford Generator Bearings. It will also serve as a handy puller for many uses around the garage.

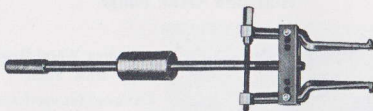
No. P-50 Alternator Bearing Puller

Oil Seal Puller



SP-25M — FOR OIL SEAL PULLING — pulls large range of seals in both pinion end and transmission end. It also may be used with slide hammer pullers No. P2475 and P2340. Center screw 8" long, ¾" diameter with N.F. thread.

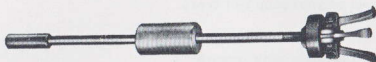
Slide Hammer Internal Puller



A fast acting internal pulling assembly for removing grease retainers, oil seals, bearing races, etc. 24" center screw, ¾" diameter, N.F. thread.

No. P-2475

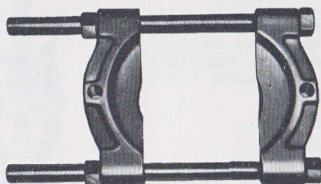
Slide Hammer Puller



A combination tool, which may be used for both inside and outside pulling jobs. As illustrated the puller has a maximum capacity of 2½" for pulling bearings, grease retainers, oil seals, etc. With the cone and jaws reversed it has a maximum capacity of 4" for pulling gears, bearings, pinions, etc. 24" center screw, ¾" diameter, N.F. thread.

No. P-2340 Slide Hammer Puller

Timken Bearing Splitter

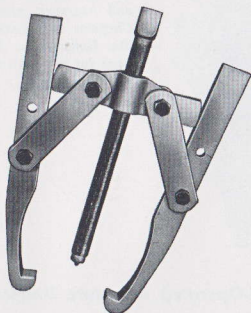


Here is a tool required to separate the double Timken Bearing on axle shafts. The knife-like edges of the blade wedge between the bearings, forcing them apart so they can be removed with the aid of a gear puller. The sharp edges of this tool enables the mechanic to pull gears and bearings where space is too limited to apply the jaws of a puller. Available in the following sizes.

No.	Use With Puller No.	Stud Hole Size	Capacity
BS-1	P2171-P2172	3/8" N.C.	1/4" to 2-1/2"
BS-2	P2171-P2172 P2175-P2176	5/8" N.F.	3/4" to 4-1/4"
BS-3	P2176	5/8" N.F.	1-1/2" to 6"

"Auto-Jaw" Pullers

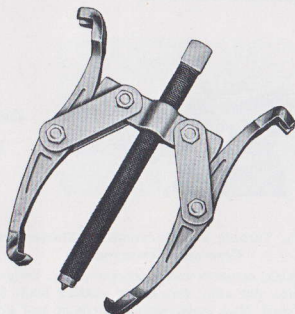
The "Auto-Jaw" Puller comes in a size for every application. Rugged power units with automatic gripping action on the jaws. Component parts are forged from alloy steel. Cadmium finish. Specifications listed below. NF threads.



Puller No.	Max. Reach	Maximum Spread	Lgth. and Diam. Forcing Screw	Capacity	Weight
P-2175	5 1/4"	0" to 8"	9/16" x 7"	5 Ton	2 1/2 lb.
P-2176	10"	0" to 12"	3/4" x 12 1/2"	15 Ton	9 1/4 lb.

"Duo-Grip" Pullers

"Duo-Grip" Pullers have Reversible Jaws with thin fingers on one end to get into restricted spaces. Other end has wider jaws for maximum support to flat surfaces. The wide fingers on the No. P-2172 are slotted for hooking onto cap screws to remove gears and parts with tapped holes. Forged cross arm and jaws. Alloy steel forcing screw with buttress threads. Cadmium finish. Specifications listed below. NF threads.



Puller No.	Max. Reach	Maximum Spread	Lgth. and Diam. Forcing Screw	Capacity	Weight
P-2171	3 1/2"	0" to 6"	9/16" x 7"	5 Ton	2 lb.
P-2172	6"	0" to 9"	1 1/16" x 9 3/4"	9 Ton	4 1/2 lb.

Tools for Pulling and Disassembling Hydraulic Valve Lifters



For Pulling Hydraulic Valve Lifters On Chevrolet and Straight Eight Buick

To use this tool . . . Remove plunger lock ring in lifter. Insert tool so ferrule on collet snaps into lock ring groove. Expand collet just enough to grip valve lifter pin in the end of tool for releasing check valve so plunger can be pushed down.

No. VL-220—With No. CB2201 Collet.

No. CC2106—Collet only for G.M. 1957 V-8 Engine.

For Removing Hydraulic Valve Lifter Plungers



This tool has 2 expanding collets . . . large for Chevrolet 6 cylinders and Buick straight eight, small for Cadillac, Oldsmobile, Chevrolet V-8, Buick V-8 and Pontiac V-8. Slide hammer is counter bored so cylinder can be knocked off of plunger. This tool can be held in vise.

No. VL-210—With Collets Nos. CC2101-CC2102.

Extra Collets for No. VL-210.

No. CC2103—To Remove Plunger on 6 Cyl. Chevrolet.

No. CC2105—To Remove Plunger on Chrysler, DeSoto, Dodge.

No. CC2106—To Remove Plunger on G.M. '57 V-8 Engines.

No. CC2107—To Remove Plunger on Lincolns.

For Removing Cadillac, Oldsmobile, Buick V-8, Chevrolet V-8 and Pontiac V-8 Hydraulic Lifters



Has collet that slips over lifter and is tightened by a clamping screw.

No. VL-200 —With Collet No. CO-2001.

No. CO-2004—Extra Collet Available for 6-cyl. Chevrolet.

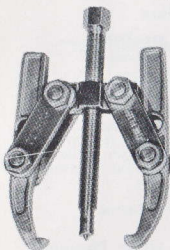
Idle Arm Bushing Puller and Replacer

This puller also removes and replaces bushings on long tie-rods. The tool is designed to work on Chevrolet models 1955 through 1957; Mercury 1954 through 1959; and Ford 1954 through 1959.

No. P1000 Idle Arm Puller



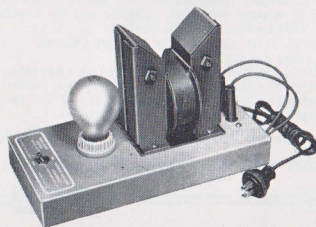
Midget Gear Puller



This puller has 2 positions to lengthen or shorten jaw reach. Ideal puller for removing small magneto and generator bearings, and various type of small gears. Also very handy for electric motor work. Puller has maximum reach of 3-1/4" and maximum spread from zero to 4".

No. P240 Midget Gear Puller

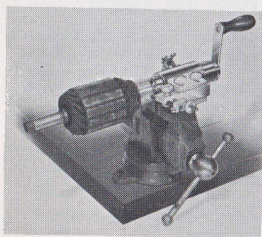
Armature Growler



This Growler, is effective and immediate in locating shorts and openings for all size armatures in generators, starters, and other equipment. Large and powerful, completely equipped with socket for test light, switch and test prod. Mounted on a sturdy metal base with long flexible rubber cord and unbreakable plug for electric socket.

No. AG440 Armature Growler 110 or 220, 60 Cycle

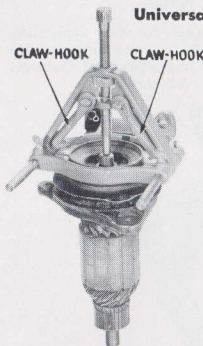
Armature Turning Tool



- Does a super smooth job in MINUTES.
- No need to disassemble before turning.
- Stops automatically at end of cut.
- No operator experience necessary.

Equipped with five adapters that fit armature shafts of Ford, Chrysler, General Motors and most other cars. Special adapters available.
No. AL42

Universal Pulley Puller



The puller will service all regular type pulleys including trucks and tractors along with the Chrysler Alternator and Auto-lite Generators. Full instructions for use with each pulley.

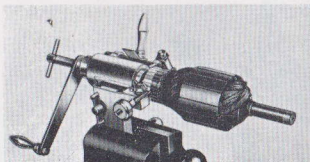
No. P-148 Puller

Hand-Operated Armature Undercutter



One of our BIG FEATURES is that we cut the mica different from any other machine we know of, including electric rotary types. The cutters are milled in REVERSE—cutting is done on the way off the armature. This stops the packing of copper chips into corners, thereby eliminating short circuits between segments. You will find this to be the FASTEST, FINEST, AND MOST ACCURATE undercutter on the market REGARDLESS OF PRICE!

No.
AU112—Armature Undercutter.



Armature
Lathe

(For Turning and Undercutting Starter and Generator Commutators)

This is a quick, accurate and inexpensive tool. Body of tool is of high grade zinc alloy die casting, cutting blade is highest grade tool steel. Mica undercutting saw is of best grade saw-blade stock. Turning cut is all automatic, and Commutator turning operation requires about 1 1/2 minutes. This tool increases shop efficiency and profit.

No. AL-25—Armature Lathe.

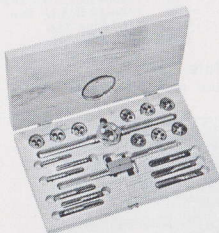
Nut Cracker



This is an offset—open-head designed nut cracker, which will allow the mechanic to get into those inaccessible spots from any angle. It is particularly useful for exhaust manifolds, muffler clamps, shock absorbers and in many other places. Will handle nuts from 5/16" to 13/16", inclusive. This is measurement across the flats. Ruggedly built for long life.

No. NC-800 Nut Cracker

Metric Tap and Die Set



The use of foreign cars makes necessary a demand for Metric Tap and Dies.

This set contains the most common used sizes consisting of 20 pieces complete in wood box. The sizes included in the set are listed below.

Metric Size Taps

4-MM x 0.7	9-MM x 1.25
5-MM x 0.8	10-MM x 1.50
6-MM x 1.0	11-MM x 1.50
7-MM x 1.0	12-MM x 1.75
8-MM x 1.25	

#TW-1 Tap Wrench
#DS-4 Die Stock

Dies are adjustable and 1" outside diameter. Dies to match above sizes are included.

Order No. 9-M Metric Tap and Die Set

Electric Marking Pencil

For marking names on Tools, etc. Writes like pencil. Can be used with Battery or Transformer. 6-Volts. 12 Pencils 3 1/4 lbs.

No. EP-9



Hex Tap and Die Super Set

This is a complete hex tap and die set, containing the popular size range as shown below. 41 tools in its own easy-to-reach compartment, and all in a sturdy, unbreakable, pliable, plastic red case.

DS3D Die Stock for 5/8" Hex

DS5B Die Stock for 1" Hex

TW9 Tap Wrench
TW3 Small T - Hdl. Tap Wr.

TW4 Large T - Hdl. Tap Wr.

SG514 Screw Pitch Ga. Screw Driver

MST5 4-36 M.S. Tap
MST10 6-32 M.S. Tap

MST15 8-32 M.S. Tap
MST20 10-24 M.S. Tap

MST25 10-32 M.S. Tap
MST30 12-24 M.S. Tap



Complete Set Order #606

1" DIAMETER SOLID DIES

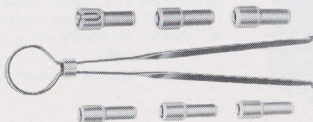
D2H	1/4-20 USS Die
D4H	5/16-18 USS Die
D6H	3/8-16 USS Die
D8H	7/16-14 USS Die
D10H	1/2-13 USS Die
D12H	1/4-28 SAE Die
D14H	5/16-24 SAE Die
D16H	3/8-24 SAE Die
D18H	7/16-20 SAE Die
D20H	1/2-20 SAE Die
D25H	1/8" Pipe Die
T2	1/4-20 USS Tap
T4	5/16-18 USS Tap
T6	3/8-16 USS Tap

T8	7/16-14 USS Tap
T10	1/2-13 USS Tap
T12	1/4-28 SAE Tap
T14	5/16-24 SAE Tap
T16	3/8-24 SAE Tap
T18	7/16-20 SAE Tap
T20	1/2-20 SAE Tap
T22P	1/8" Pipe Tap

5/8" DIAMETER SOLID DIES

MSD5D	4-36 M.S. Die
MSD10D	6-32 M.S. Die
MSD15D	8-32 M.S. Die
MSD20D	10-24 M.S. Die
MSD25D	10-32 M.S. Die
MSD30D	12-24 M.S. Die

Alignment Dowel Set



For fast, accurate placement of Head Gaskets and Cylinder Heads. Three dowels placed in the block give added protection to the gasket and three-point alignment for block-gasket assembly. Head bolts start easily. The spring activated retriever removes the dowels without unscrewing.

No. CF-83



Tap & Die Super Set

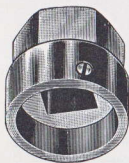


No. 614

The Following List of Contents Shows It Really Is A Super Set

No.		No.	
DS4	Die Stock	T2	1/4—20 U.S.S. Tap
TW1	Adj. Tap Wrench	T4	5/16—18 U.S.S. Tap
D2	1/4—20 U.S.S. Die	T6	3/8—16 U.S.S. Tap
D4	5/16—18 U.S.S. Die	T8	7/16—14 U.S.S. Tap
D6	3/8—16 U.S.S. Die	T10	1/2—13 U.S.S. Tap
D8	7/16—14 U.S.S. Die	T12	1/4—28 S.A.E. Tap
D10	1/2—13 U.S.S. Die	T14	5/16—24 S.A.E. Tap
D12	1/4—28 S.A.E. Die	T16	3/8—24 S.A.E. Tap
D14	5/16—24 S.A.E. Die	T18	7/16—20 S.A.E. Tap
D16	3/8—24 S.A.E. Die	T20	1/2—20 S.A.E. Tap
D18	7/16—20 S.A.E. Die	T22P	1/8" Pipe Tap
D20	1/2—20 S.A.E. Die	TW9	Tap Wrench
D25	1/8" Pipe Die	SG514	Screw Pitch Gauge
			Screwdriver
No.		No.	
MST5	4-36 M.S. Tap	TW-2	"T" Type Tap Wrench
MST10	6-32 M.S. Tap	MSD5	4-36 M.S. Die
MST15	8-32 M.S. Tap	MSD10	6-32 M.S. Die
MST20	10-24 M.S. Tap	MSD15	8-32 M.S. Die
MST25	10-32 M.S. Tap	MSD20	10-24 M.S. Die
MST30	12-24 M.S. Tap	MSD25	10-32 M.S. Die
		MSD30	12-24 M.S. Die

Hex Die Adaptors



Hex Adaptors for 1" round dies. Designed with a 1/2" square female and 1" hex male service. Can be used with 1/2" ratchet or handle or a 1" hex socket or wrench.

No. HA-5 Hex Die Adaptor.

Tap and Reamer Wrench



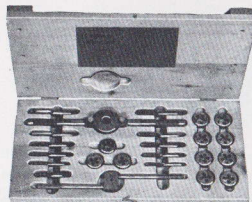
A very handy, quick action, sure grip tap and reamer wrench. Has hardened jaws, polished nickel finish and can be taken apart for cleaning. Small, easy to use, you will like this one. Capacity—4 x 36 x 1/2" Taps Incl.

No. TW-9 Tap & Reamer Wrench.

Here is a set that will delight the mechanic. A lightweight, compact kit with a popular size range of taps, dies, handles and accessories — 39 tools, each in its own easy-to-open compartment — all in a sturdy, unbreakable pliable plastic green case.

1" Round Dies O.D.

Tap and Die Set (Solid Hex Dies)



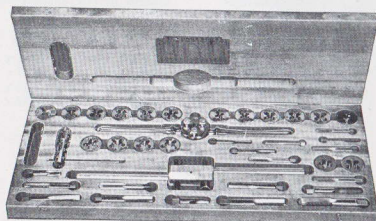
For Retreading in those cramped places and for cutting new threads. Hex Dies can be used with socket or end wrench. Polished hardwood box. 1" O.D. Hex Dies

No. 45TD—Set contains one each of the following units neatly packed in a fine wood box:

No.	Die Stock	No.	
DS-4H	Adj. Tap Wrench	T2	1/4—20 U.S.S. Tap
TW-1H	1/4—20 U.S.S. Die	T4	5/16—18 U.S.S. Tap
D-2H	5/16—18 U.S.S. Die	T6	3/8—16 U.S.S. Tap
D-4H	1/4—20 U.S.S. Die	T8	7/16—14 U.S.S. Tap
D-6H	3/8—16 U.S.S. Die	T10	1/2—13 U.S.S. Tap
D-8H	7/16—14 U.S.S. Die	T12	1/4—28 S.A.E. Tap
D-10H	1/2—13 U.S.S. Die	T14	5/16—24 S.A.E. Tap
D-12H	1/4—28 S.A.E. Die	T16	3/8—24 S.A.E. Tap
D-14H	5/16—24 S.A.E. Die	T18	7/16—20 S.A.E. Tap
D-16H	3/8—24 S.A.E. Die	T20	1/2—20 S.A.E. Tap
D-18H	7/16—20 S.A.E. Die	T22P	1/8" Pipe Tap
D-20H	1/2—20 S.A.E. Die	D25H	1/8" Pipe Die

Screw Plate Set

(1/4" to 3/4" Capacity) Round and Adjustable Dies



The set consists of (40) pieces as listed below. All dies except pipe dies are adjustable. Set is of high quality and packaged in fine wood box. 1 1/2" round dies-O.D.

No.		No.	
DS-35	Die Stock	D26L	3/4—16 S.A.E. Die
75TD	Complete Set in Box	D25L	1/8" Pipe Die
No.		D30L	1/4" Pipe Die
TW3	T-Tap Wrench	T2	1/4—20 U.S.S. Tap
TW-121	Adj. Tap Wrench	T4	5/16—18 U.S.S. Tap
D2L	1/4—20 U.S.S. Die	T6	3/8—16 U.S.S. Tap
D4L	5/16—18 U.S.S. Die	T8	7/16—14 U.S.S. Tap
D6L	3/8—16 U.S.S. Die	T10	1/2—13 U.S.S. Tap
D8L	7/16—14 U.S.S. Die	T11	9/16—12 U.S.S. Tap
D10L	1/2—13 U.S.S. Die	T13	5/8—11 U.S.S. Tap
D11L	9/16—12 U.S.S. Die	T15	3/4—10 U.S.S. Tap
D13L	5/8—11 U.S.S. Die	T12	1/4—28 S.A.E. Tap
D15L	3/4—10 U.S.S. Die	T14	5/16—24 S.A.E. Tap
D12L	1/4—28 S.A.E. Die	T16	3/8—24 S.A.E. Tap
D14L	5/16—24 S.A.E. Die	T18	7/16—20 S.A.E. Tap
D16L	3/8—24 S.A.E. Die	T20	1/2—20 S.A.E. Tap
D18L	7/16—20 S.A.E. Die	T22	9/16—18 S.A.E. Tap
D20L	1/2—20 S.A.E. Die	T24	5/8—18 S.A.E. Tap
D22L	9/16—18 S.A.E. Die	T26	3/4—16 S.A.E. Tap
D24L	5/8—18 S.A.E. Die	T22P	1/8" Pipe Tap
		T30L	1/4" Pipe Tap

1—Screw Driver for Die Adjustment

Buckingham Thread Cleaners



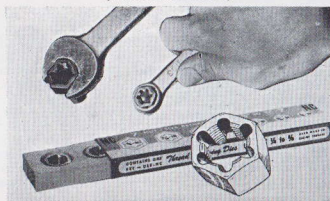
Once over with this thread restorer and cleaner, and battered or rusted threads are like new — Cleans and restores, does not cut away but leaves a nice snug fit for the nut. NOTE: The Guide Wheel, is merely a guide to seek first the depth of the original thread and guide the tool. Do not force it, fit it just snug, and be careful not to set the tool to the depth of the cotter key holes. This tool will clean and restore, without forcing, fits any left or right hand standard pipe or machine thread.

Note: The small area of swing required for the No. TC-6203, for those jobs allowing small working space.

No.	Min.	Max.	Swing
TC-6103	1/4" to 1"		7"
TC-6104	1" to 2-9/16"		10"
TC-61060	2" to 4"		9"
TC-6203	1/4" to 1"		2 3/4"
TC-62040	1" to 2-9/16"		4 5/8" to 5 3/8"

Hex Rethreader Die Sets

(U.S.S. and S.A.E)



Renew damaged threads on bolts, shafts and studs with "Jaw" rethreader dies. Sets contain sizes as shown below. Fast, efficient, practical. Operate in limited space—no holders required.

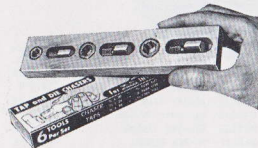
No.	
TR8 -S	(8 pieces) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", (S.A.E.)
TR8 -U	(8 pieces) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", (U.S.S.)
TR25-S	(5 pieces) 3/4", 7/8", 1", 1 1/8", 1 1/4" (S.A.E.)
TR25-U	(5 pieces) 3/4", 7/8", 1", 1 1/8", 1 1/4" (U.S.S.)

SPECIAL LEFT-HAND RETHRADING DIE

Tool No.

TRD-5 1/2" L-Hand Rethreading Die.

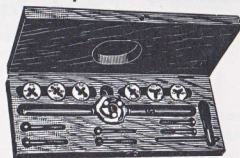
Tap and Die Chaser



No.
TR-61F Tap & Die Chaser

Kit consists of 3 Chaser Taps and 3 Chaser Dies; 1/2x20, 7/16x24, and 3/8x24. Works on Fuel, Hydraulic and Oil Fittings for 5/16", 1/4" and 3/16" tube size. Can be used by hand or with wrench or socket. It's a money saver! For inverted flared fittings.

Tap and Die Set



The No. 22TD Machine Screw Tap and Die set carries six very popular size Machine Screw Taps and Dies. The set also contains the Adjustable Guide Die Stock and an Adjustable Tap Wrench of the Tee Type can also be used as a Reamer Wrench within its capacity. 1" O.D. Round Dies.

No. 22TD—Set contains one each of the following units neatly packed in a fine wood box.

No.	purchased in a line with No. 5021		No.		
MST5	4-36 M.S. Tap		TW-2	"T" Type Tap Wrench	
MST10	6-32 M.S. Tap		MSD5	4-36 M.S. Die	
MST15	8-32 M.S. Tap		MSD10	6-32 M.S. Die	
MST20	10-24 M.S. Tap		MSD15	8-32 M.S. Die	
MST25	10-32 M.S. Tap		MSD20	10-24 M.S. Die	
MST30	12-24 M.S. Tap		MSD25	10-32 M.S. Die	
DS2	Die Stock		MSD30	12-24 M.S. Die	

Thread Restorers

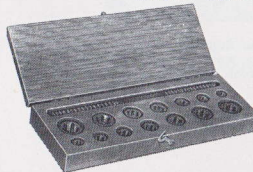


A few strokes across battered threads produce a true new thread — nut will then go on easily. These tools are real trouble and time savers. — NOT REPLACABLE.

No. TR-1—Thread Restorer—has 8 thread sizes—11, 12, 13, 14, 16, 18, 20, and 24 threads to the inch.

No. TR-2—Thread Restorer—has 9, 10, 12, 16, 20, 27, 28, and 32 threads to the inch.

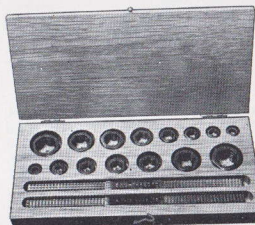
Thread Restoring Set



This is the set every mechanic should own personally. Contains a No. 1 Nu-Thread File for threads from 9 to 32 T.P.I. Works on any diameter of thread either right or left hand. The No. 1278 also contains 7 Coarse NC dies and 8 Fine NF dies from 1/4 thru 3/4. A place for each tool in a beautiful polished wood cabinet.

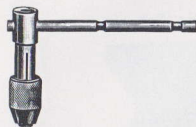
No. TR177

Thread Restoring Set



The most popular set for master mechanic or average size shop. Contains a No. 1 and No. 2 Nu-Thread File for threads from 9 to 32 T.P.I. Works on any diameter of thread either right or left hand. The No. 1278 also contains 7 Coarse NC dies and 8 Fine NF dies from 1/4 thru 3/4. A place for each tool in a beautiful polished wood cabinet.

No. TR1278



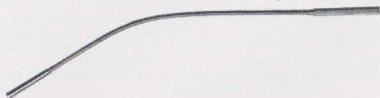
T Handle Tap Wrench

Sliding handle type with spring tension to hold handle in any desired position. Nickel plated with blued nuts.

TW-2 Tap Wrench
TW-5 Tap Wrench

Size 0 to 1/4"
Size 1/4" to 1/2"

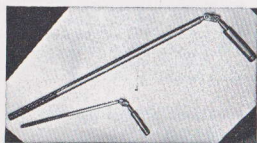
Magnetic Flexible Pick-Up Tool



A new 12" Flexible Pick-Up Tool, with strong Alnico V magnet on slender flexible shaft. PLUS . . . a Semi-Ridged inserting pin which will telescope into the flexible shaft and screw lock into the handle, thus giving you a combination Flexible and Semi-Ridged Pick-Up tool, for retrieving small parts from inaccessible spots, such as crankcase, transmission, differential, etc.

No.
MPF-1 Magnetic Flexible Pick-Up Tool.

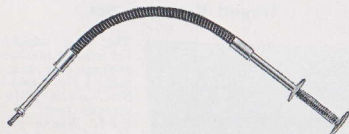
Magnetic Pick-Up Tool



A sensational new magnetic finder and pick-up tool—picks up fallen nuts, bolts, screws, washers, etc., out of the toughest spots to get at. Opens to 2 feet, powerful magnet guaranteed 5 years.

No.
MP-2—Straight Pick-Up Tool 6" with Pocket Clip
MP-4—Junior size
MP-5—Senior size

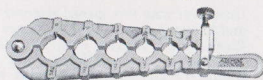
Flexible Mechanical Finger



Extremely useful tool in limited working space. Used in "hard-to-get-at" spots, too small to insert the hand. Tool can be bent into many shapes such as a double "S" or at a double right angle and still retain full operation of the jaws. No. MF-15—Fully flexible type—15" long with an 8" flexible section.

No. MF-12—Solid Type—12" reach.

Axle Rethrading Die



This Axle Rethrading Die is used for rethreading axles without removing them from the housing.

Wheels removed with difficulty using the knock-off type wheel puller the threads are occasionally damaged. This Axle Rethrading Die will rethread the threads quickly. The die is split for quick application and is fitted to the threads at the back end of the axle. Always apply the tool to the rear of the thread and back it off.

Has the following S.A.E. thread sizes: 5/8", 3/4", 7/8", 1", 1 1/8" and 3/4" N.F.

No. AD-10—Length 11".

Spark Plug Threading Tools

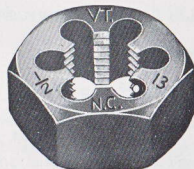


Aluminum is a soft metal and threaded holes in it must be used with the greatest caution. A spark plug that is not started straight can easily strip the thread in the cylinder head. Most cylinder head pullers use the spark plug holes to lift the cylinder head and the danger of stripped threads is always present.

No.	Description
SPT-10	10 m/m Packard
SPT-14	14 m/m (V8-60 Ford)
SPT-18	18 m/m (V8-85 Ford)
SPT-25	3/8-18
SPC-4	4 Step Counterbore

SPT-40 Set—Contains one each of the above put up in very fine wood box.

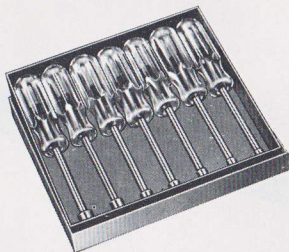
Large Size Hexagon Rethrading Dies



D22LH	9/16—18th. S.A.E.	D11LH	9/16—12th U.S.S.
D24LH	5/8—18th S.A.E.	D13LH	5/8—11th U.S.S.
D25LH	11/16—16th S.A.E.	D14LH	11/16—11th U.S.S.
D26LH	3/4—16th S.A.E.	D15LH	3/4—10th U.S.S.
D28LH	7/8—14th S.A.E.	D17LH	7/8—9th U.S.S.
D30LH	1—14th S.A.E.	D19LH	1—8th U.S.S.

Across Flats
1- 1/16
1- 1/4
1- 7/16
1- 7/8
1- 5/8
1-13/16

Nut Driver Set



No.

ND 6—	3/16" Opening - Hex	These new Nut Drivers are top quality. Handles are made of special plastic which are resistant to shock. Sockets are precision formed, free of burrs, and fit nuts snugly, and deep enough to handle two nuts. Depth of shaft hole 1 1/4".
ND 7—	7/32" Opening - Hex	
ND 8—	1/4" Opening - Hex	
ND 9—	9/32" Opening - Hex	
ND10—	5/16" Opening - Hex	
ND11—	11/32" Opening - Hex	
ND12—	3/8" Opening - Hex	
ND14—	7/16" Opening - Hex	
ND16—	1/2" Opening - Hex	

ND-7S Set complete in box. Consisting of first seven sizes. Sold individually and in boxes.

C-CLAMPS Malleable Alloy



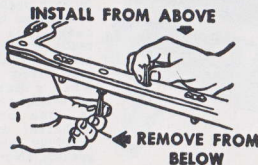
HEAVY DUTY

Catalog No.	Capacity
C-502	0"-2"
C-503	0"-3"
C-504	0"-4"
C-506	0"-6"
C-508	2"-8"

LIGHT DUTY

Catalog No.	Capacity
CC-20	0"-2"
CC-30	0"-3"
CC-40	0"-4"
CC-50	0"-5"
CC-60	0"-6"

Gasket Clips



The mechanic's friend, new, modern and easily attached and removed . . . A simple application to save time and money. Packaged—1 Doz. to pack.

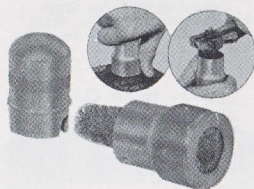
No. GK-1

Scriber and Packing Hook



Scriber with Hardened Point—Other End designed for removing old packing from water pumps and replacing with new. Not guaranteed. No. S-322

Battery Post Cleaner

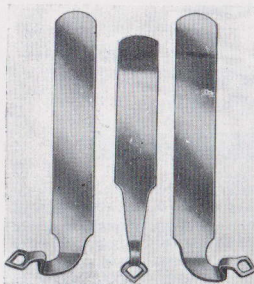


This is the tool that makes the hit with the mechanic's customer. A combination tool to clean to a sparkling degree, the battery post and also the cable terminal.

It has a fine wire post cleaner on one end, and a fine wire hone for cleaning the cable terminal on the opposite end. Metal covered with a smooth chrome finish. Durable and rugged, it will last for years.

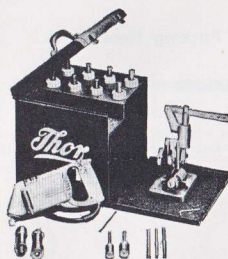
No. BB-5

Locking Strip Tools



Now you can install self-sealing rubber weatherstrip quickly. This tool automatically spreads the channel to receive the locking strip, and the heel of the tool presses it in securely. Three tools, one for straight-work, right-hand work, and left-hand work.

No. GT-110 Straight Locking Strip Tool
No. GT-110R Right Locking Strip Tool
No. GT-110L Left Locking Strip Tool
No. GT-1103 Complete Set of one each of above



"Thor" Valve Seat Kit

This kit includes an SG Heavy Duty Seat Grinder, two Roller Bearing Wheel Holders, plus eight wheels and five pilots.

- Wheels**
 1½" 45° Finishing Wheel No. 74159
 1½" 45° Finishing Wheel No. 74160
 1¼" 45° Finishing Wheel No. 74161
 1½" 45° Finishing Wheel No. 74162
 1½" 30° Finishing Wheel No. 74163

- Pilots**
 1¾" 30° Finishing Wheel, No. 74164
 1¾" 45° Roughing Wheel, No. 74165
 1¾" 45° Roughing Wheel, No. 74166

- ☆ Expanding Pilot, No. 75734
 ☆ Expanding Pilot, No. 75735
 ☆ Expanding Pilot, No. 75736
 1½" Plug Pilot (V8-85), No. 75745
 Pilot Wrench, No. 80984
 No. 22A Valve Seat Kit.

E-Z-Go Hand Cleaner



Removes all Grease, Grime, Paint and Tar.
 Rinses or wipes off.

No.

- EZ-1 —14-Oz. Cans (12 to Case).
 EZ-5 —4½-Pound Cans (6 to Case).
 EZ-5D—Dispenser

Tube Bender

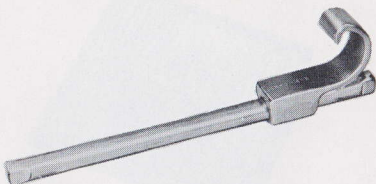
External Spring Type



This spring-type tube bender is an efficient, low-cost tool for bending tubing by hand to any desired shape without collapsing the tube. The bender consists of an especially prepared spring wire coil. Springs have an attractive black protective finish. The belled end of the bender assures ease in removing from tubing after bend has been made. Bender designed to assure against scratching tubing.

- No. TB-1 Size 1/4" Bender.
 No. TB-2 Size 5/16" Bender.
 No. TB-3 Size 3/8" Bender.
 No. TB-4 Size 1/2" Bender.
 No. TB-5 Size 5/8" Bender.
 No. TBS—Set of 3 sizes 1/4"-5/16"-3/8".

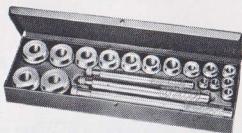
Tie Rod Sleeve Spreader



This tool will handle any steering equipment with tie rods. You merely loosen the clamps on both ends of tie rod sleeve, hook spreader over sleeve. Spread and adjust in seconds. Has reversible sliding handle to use from either side.

Order No. TRW-100 Tie Rod Sleeve Spreader

Bushing Remover and Replacing Sets (Passenger & Truck)

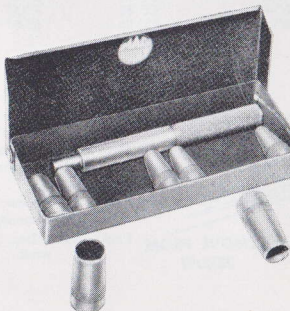


These tools are made of a high grade steel, heat treated and tempered for hard use and long life.

The outside diameters are perfectly true with each other. A practical bushing remover and replacing set designed to meet the demand of the up-to-date garage. Cadmium plated, in metal case.

Bushing Driver Sets

- No. 875-A—Range 3/8" to 1-3/8"—Standard Set
 No. 975-A—Range 1-5/16" to 1-7/8"—Heavy Duty Set



Gasket or Hollow Punch Set

Seven popular sizes from ¼ to ¾ inch inclusive in compact metal case. This is a really serviceable set and will stand unlimited use when a Babbet or wooden block is used under material when punching holes in gaskets. (Not Replaceable)

No. 79-P — Set complete in case.

Water Saver



This water saver will cut water bills in half, and will pay for itself 50 times over. Attach it to the water hose; pick it up and the water is on, drop the hose and the water is off. A fast, handy, and economical way to wash cars, service courts, driveways, etc.

No.

- WSM Open Flow Hose and Water Valve
- WSR Forced Fine Stream Hose and Valve
- WSME Open Flow Hose Only
- WSRE Forced Fine Stream Hose Only
- WSV Water Valve Only

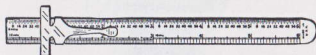


Universal Joint Adapter

A long, narrow Universal Joint Adapter for ease lubricating Universal Joints, for packing springs on all makes of cars and greasing stubborn fittings.

No.
UA260 Universal Joint Adapter.

Steel Rule



A stainless steel rule with accurate, quick reading graduations. It has depth gauge, also has decimal equivalents on back side. Has pocket clip attached.

No. SR-6

Spark Plug Extension Set



A set of 8 extensions to connect to spark plugs, when using all type tune up testing equipment. Can be joined together for extra length where required.

Tool No. SE-84

Clamp Spreader and Cleaner



A quick, easy and efficient way to spread and clean terminal clamps after removal from post in one operation and without distortion.

No. BP-20

7½" Long

Wt. 11 oz.

No. 11 Hex Nut Plier and Post Cleaner



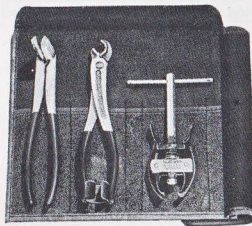
A self-locking plier that will not slip and cause damage to battery! Its super-leverage overcomes the most stubborn nut. Also serves as a general purpose nut wrench especially adaptable for brake nut adjusting. Attached post cleaner insures perfect contact and stops energy loss.

No. BP-11

7½" Long

Wt. 9 oz.

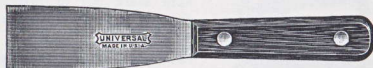
Battery Tool Set



Three popular and indispensable battery tools packed in a handy leatherette kit of blue. It keeps battery tools in one spot, and will fit into the service man's pocket, a convenient thing on service calls. Complete battery service kit to do the job. Kit is acid resistant.

No. BP-22K

Putty Knife



Imported Rosewood Handle, with Duralumin interlocking rivets.

NOT REPLACEABLE

- No. PK-1 Standard Putty Knife — 1½" Blade
- No. PK-2 Heavy Duty — Thick Stiff Blade — 1½"
- No. PK-10 Heavy Duty — Thick Stiff Blade — 3"
- No. PK-12 Flexible Blade — 3"

Flexible Wire Carbon Scraper



This Scraper has a claw-like end that scrapes clean and deep. Being flexible, it goes into all curves of cylinder heads. You get it all with this scraper.

The springs are made strong with oil-tempered spring wire. They fit the curve of every piston head without fail.

No. CS-10 10" Long, 1" Wide

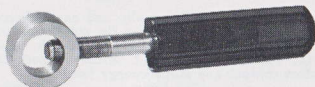
Oil Punch



Here is an oil punch designed to solve the mechanic's problem. You can now open sludge clogged initial oil channels leading to head bolt for clear oil flow to rocker arms without dismantling engine. One job pays for the original cost of the tool. The simple method of stopping noisy valves and wear on rocker arms.

Order No. OP-1 Oil Punch

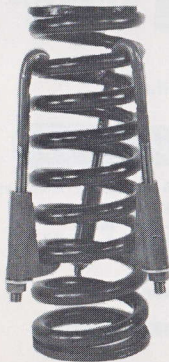
Punch and Chisel Holder



This holder has a plastic handle and will hold any tool up to 1" in diameter. Saves bruised knuckles and helps the mechanic to get into hard-to-get places. Has nylon inserts which takes up shock.

No. KS-10 Punch and Chisel Holder

Coil Spring Clamps and Compressor

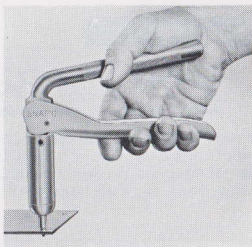


This set of clamps takes the hard work out of installing coil springs in all makes of cars.

Complete instructions come with the set of tools. These are constructed of the finest ductile steel. They are safe, fast and economical.

Order No. CS-20 Coil Spring Clamps

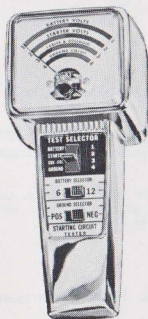
Blind Rivet Gun



This is an automatic deluxe blind rivet gun. For many non-blind applications. The answer for the body and fender man to low cost, quick assembly. Replaces welding and sheet metal screws. Designed to get into confined places such as channel strips, etc. Both countersunk rivets and flat head rivets are available as shown below.

- | | |
|--------------|-------------------------------|
| No. RG-700 | Rivet Gun with 100 Rivets |
| No. RG-742-F | Box of 500 Flat Head Rivets |
| No. RG-742-C | Box of 500 Countersunk Rivets |
| No. RGD-8 | Counter Drill |
| No. RG-762-F | Box of 500—Flat 3/16" Rivets |
| No. RG-764-F | Box of 500—Flat 3/16" Rivets |

Starting Circuit Tester



Here is a revolutionary new testing tool. Designed so that it is very simple to use. Complete instructions shown on back of tester.

This unit will check battery condition, determine need for starter service, check battery cables and connections, determine need for solenoid replacement. Also check ground connections. Operates on both 6 and 12 volt systems.

Order No. T-145 Starting Circuit Tester

Regulator and Generator Tester—Tachometers — Dwell Meters— Coil and Condenser Tester

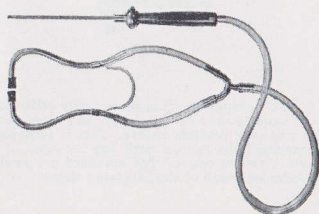
Any Three of the Testers Shown Below May Be Used in the
Metal Rack as Illustrated



These testers have five foot leads permanently attached. Large $4\frac{1}{2}$ " easy to read meter scales. Simple instruction sheets included with each tester. Designed for use on 6, 12, and 24 volt systems. Can supply individually or in rack as illustrated.

No.	
ET-400	Regulator & Generator Tester
ET-600	Coil & Condenser Tester
ET-850	Tach. Dwell, Regulator Tester
ET-864	Combination Dwell Meter & Tachometer
ETR	Rack Only

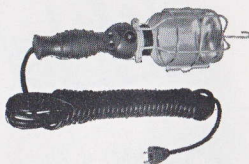
Motor-Phone



Brings to mechanical trouble shooting the sensitivity of the medical stethoscope. Invaluable in isolating hard-to-locate noises. Made of finest materials.

No. MP-15

Trouble Lamps



Complete with heavy or standard cord and reflector guard, switch and double outlet. Not replaceable.

No.

DC-25H—25' cord—HD

DC-50H—50' cord—HD

Flood Lights

These lights have a six inch reflector. Also U.L. approved wire. Rubber covered spring clamp.



No.

FL-25 25 Ft. Cord

FL-50 50 Ft. Cord

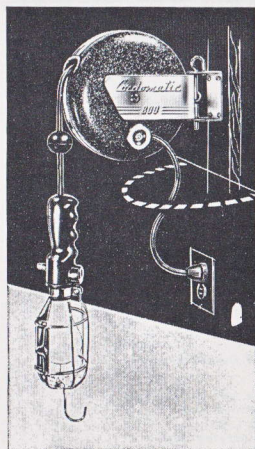
"Cordomatic" Drop Cord Reel

No.

DCR700 20' Drop
Cord Reel.

DCR800 30' Drop
Cord Reel.

DCH100 Handle
only with Shield





Tune-Up Tools (6-12 Volt Systems)



COMPLETE — Handy individual tools to perform every major step in tune-up . . . outperforms the big, bulky, expensive analyzers.

COMPACT — Lightweight, fully portable, durably finished carryall . . . no bigger, no heavier than an ordinary tool box.

SIMPLE — Each TOOL is engineered to do specific jobs, easily, quickly, accurately . . . no waste steps . . . makes tune-up faster, more profitable.

UNIQUE — Makes anyone an "expert" in minutes. You pay for just the equipment, not a training course . . . the know-how is built-in.

ECONOMICAL — Lowest cost complete tune-up equipment ever offered . . . and maintenance cost is exceptionally low, too. Available as set shown above or individually as listed below.

The above Set includes one each of the following items:

No.	
T-111	Combination Dwell and Tachometer
T-161	Ignition Tester
T-141	Regulator Tester
T-151	Fuel Pump and Capacity Tester
TL50P	Timing Light
T-300	Complete Set in Carrying Case
T-300C	Carrying Case Only

The following items which are of the same design as shown in illustration above are also available individually:

No.	
T-101	Tachometer
T-121	Dwell Meter
T-201	Marine Tachometer



This Set includes one each of the following:

No.	
T-111	Combination Tach. and Dwell Tester
T-141	Regulator-Generator Tester
TL75	AC Power Timing Light
T-250	Complete Set in Carrying Case
T-250C	Carrying Case Only

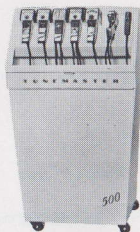
Tune-Tool Kit



This Set includes one each of the following items:

No.	
T-151	Fuel Pump and Capacity Tester
CT75	Compression Tester
RCS-5	Remote Starter Switch
TL75	AC Power Timing Light
T-200	Complete Set in Carrying Case
T-200C	Carrying Case Only

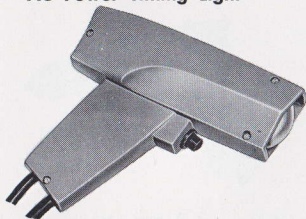
Tunemaster Set



Here is quality equipment. This set not only sells the tune-up, it does the tune-up, and does it faster and easier and at less cost than was ever possible before. This is so designed that you can purchase the cabinet with any selection of the individual testers you so desire. The standard set as illustrated above includes one each of the following items:

No.	
T-101	Tachometer
T-121	Dwell Meter
T-151	Fuel Pump and Capacity Tester
T-141	Regulator-Generator Tester
T-161	Ignition Tester
TL50P	Timing Light
RCS-5	Remote Starter Switch
CT75	Compression Tester
T-500	Set Complete in Case
T-500C	Cabinet Only, Complete

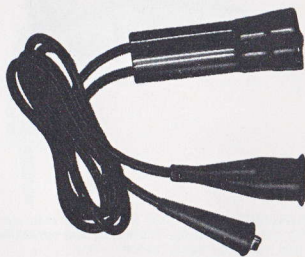
AC Power Timing Light



Here is a timing light designed with the mechanic in mind. It is 110 volt, 25-60 cycle, AC and emits a sharp, brilliant, white light. Has a stop and go switch.

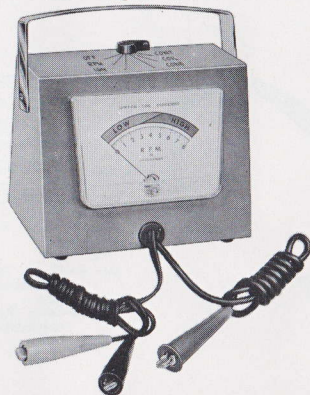
No. TL75 Timing Light

Standard Timing Light



No.
TL5 Timing Light Complete
TL5-E Elements Only

Small Engine Tester



This model T-361 spots ignition trouble in small engines without even starting them. One pull of the starter cord and you know immediately if you must work on fuel system or ignition. The tester does many more jobs too. It is a complete shop designed to make small engine service really profitable.

No. T-361 Engine Tester

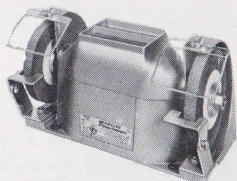
Super-Beam Power Timing Light



6 & 12 volt operation without relays. Trigger control saves bulb wear. Bright — sharp beam.

No.
TL50P—6-12V Power Timing Light

Thor Bench SpeedGrinder



Specifications: Wheels—6" x 3/4" x 1/2"; 1—46 grit; 1—75 grit. No Load Speed—3450 R.P.M. Motor—1/4 H.P.—Induction Type—A.C. only. Body—1-piece Cast Aluminum. Overall Length—16". Net Weight—19 1/2 lbs.

No.
BG128A Bench SpeedGrinder

Spark Catcher

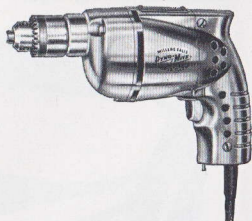


Here is a necessary tool in connection with motor tuneup. Used to catch the spark on hard-to-get-at plugs to connect the tuneup equipment.

No. SPE-1 Spark Catcher



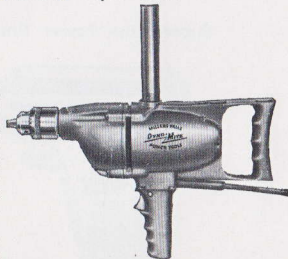
"Millers-Falls" 3/8" Drill



3/8" HIGH-TORQUE — 1000 R.P.M. For men who want extra capacity for 3/8" drilling in steel or for operating small hole saws and carbide-tipped masonry bits.

No. D-2838 3/8" Drill

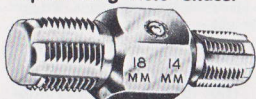
"Millers-Falls" 1/2" Drill



It is specially designed for those tough jobs that 1/4" or 3/8" drills just can't handle. Has more built-in power, more solid, dependable drilling punch than any comparable drill available today.

Features include: Trigger switch with locking button for continuous use, and automatic release. Geared Key Chuck: Universal AC/DC motor. Cap. in Steel 1/2"; R.P.M. 425; Lgth. overall 15"; Weight 8 lbs. No. D-912

Spark Plug Hole Chaser



Designed with chaser on opposite ends for both 18MM and 14MM spark plug holes. Has hex center fitting with ball and spring for application of various type wrenches.

No. SP-1—Thread Chaser

Bench Grinder



No. BG-6 Bench Grinder 1/3 HP. 1 Ph. 60 Cyc. 3400 RPM.

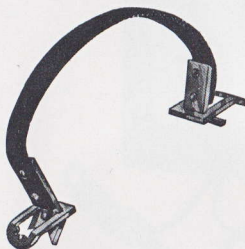
1/2 Horsepower, equipped with first grade ball bearings and powered with a capacitor start, and capacitor run motor. Note the wide clearance between wheel and motor frame, wheels are larger in diameter permitting across the face grinding. Has first grade grinding wheels 6"x3/4"x 1/4" 1 — coarse and 1 — fine.

1/4" Millers-Falls Drill



This is a ball-bearing drill, 2250 R.P.M., no load, 2.7 Amps. Equipped with geared chuck and detachable side handle for convenience in certain applications.

No. D1134 1/4" Drill



Sure-Grip Battery Carrier Long Style

Sure-Grip self-locking ends positively hold the heaviest battery without danger of slipping. The greater the weight the tighter they grip. **EXTRA LONG** to handle the new 20" batteries.

No.
BL-5—Short Type Cells assembled side by side
BL-10—Long Type Cells assembled end to end

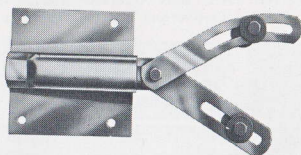
White Face Tapes



Tape of snow white enamel with black figures, easy to read. Will not crack or peel—moisture-proof and acid-proof.

No.		Width	Length
306-W	Tape	1 1/2"	6'
308-W	Tape	1 1/2"	8'
310-W	Tape	1 1/2"	10'
350-W	Tape	1 1/2"	50'
400-W	Tape	1 1/2"	100'
T7429	Tape	3/4"	10'
306-R	Refill Only		6'
308-R	Refill Only		8'
310-R	Refill Only		10'

Head Holder



This head holder is designed to do engine head and valve work in a much faster and safer manner. There are six (6) positions available. Is easily installed on your work bench and saves space. When head is attached to this holder, the various positions can be obtained.

For valve removal, valve seat grinding, carbon scraping, broken stud removal and other head work.

Order No. CF-88 Head Holder

Pet Oscillating Sander

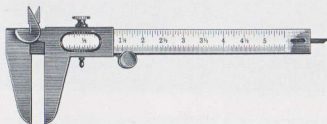


The PET FS200 Oscillating Sander has been designed for coarse, medium, or fine sanding. It will work equally well for finishing, polishing, and rubbing operations on metal, plastics, composition materials, etc. The Model FS200 Oscillating Sander is powered by a powerful shaded pole motor, and comes equipped with three grease sealed ball bearings. Each Oscillating Sander Kit includes 9 sheets of abrasive paper 9 x 3-5/8", three 60 grit, three 100 grit, three 150 grit, one lambs wool polishing bonnet 9 x 3-5/8", and instruction sheet.

No. FS200 Pet Oscillating Sander

Vernier Caliper

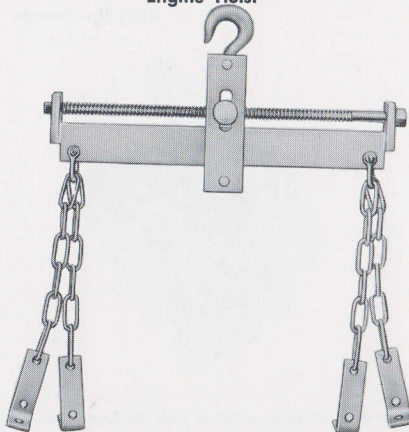
WITH FINGERTIP ROLLER ADJUSTMENT



Full 5-inch capacity. Inside and outside jaws. Depth gauge. Easy-reading graduations. Moderately priced. 16ths and 32nds (English Graduations).

No. C-721 Vernier Caliper

Engine Hoist



This hoist is designed to remove engines with transmission intact in one simple operation. The 1" adjusting nut allows user to move engine in any angle required. This is a real time and labor saver. One man can easily remove or install any engine.

No. EH-10 Engine Hoist

Ingersoll-Rand Air Impact Tool

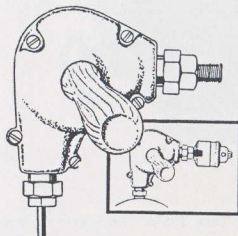


Now . . . Ingersoll-Rand scores another first . . . the lightest, most powerful 1/2" capacity, automotive Impacttool yet designed . . . the new Size 403 Air-Operated Impacttool—with built in power regulator.

No. 403—1/2" Drive.

No. 402—3/8" Drive.

Right-Angle Drive

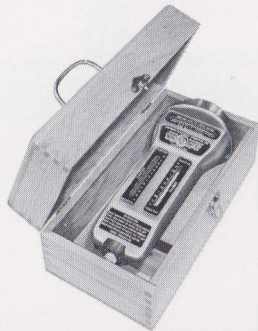


This attachment is applied to a 1/4" Drill Motor by merely removing the chuck from the drill, then screwing either spindle of the Right Angle Drive direct to the spindle of the drill. It may be applied one way to give you a 2 to 1 ratio, or the opposite way will give you a 1 to 2 ratio. A 3/8"-24 threaded adaptor is furnished with this tool, and may be used on either spindle, depending upon whether your drill has a male or female threaded spindle.

No. DA-741 Right-Angle Drive



Wheel-A-Matic Magnetic Caster-Camber King Pin Gauge



Gives all readings accurately in 5 simple steps. Held in position by magnet. Stays in position while corrections are made. No special training required. Instructions a permanent part of gauge. In wooden case as illustrated.

No. WA600B Gauge

No. WA65 Compact Car Adaptor

Wheel-A-Matic Turnplates

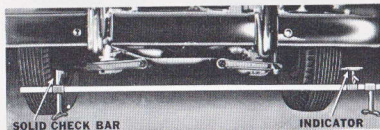


Full Floating, Ball-Bearing Turn Tables. Lock pins chained to prevent loss. This holds plates in zero position while car is being driven onto turntables.

No. WA702 Turnplates

Toe-Bar and Angle Gauge

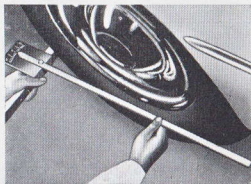
You'll Correct Toe-In More Accurately and Faster with the WA 510 Toe-Bar and WA 520 Angle Gauge



Heavy steel square tubing galvanized to prevent rust. Direct reading scale is easy to see from any angle. Sturdy, positive lock, solid check bar, heavily ribbed to prevent breakage. Designed to contact tire at scuff rib, the truest surface of the tire. Large "T" handle makes adjusting and locking simple.

No.
WA-510-8 8' Toe Measuring Gauge—13½ lbs.

Angle Gauge



Angle gauge shown above may be used in conjunction toe-bar where required.

No.
WA-520 Angle Gauge—3 lbs.

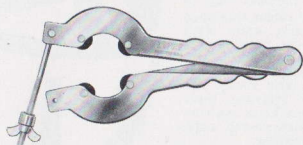
Wheel Alignment Gauge



This aligning gauge is absolutely accurate on all cars, including those with independent suspension and double tie-rod. It is instantly adjustable. Cannot become inaccurate even though bent or worn, for the straightness or squareness does not enter into the test.

No. WG-361 Wheel Alignment Gauge

Muffler Cutting Tool

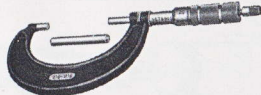


This is a simple, fast-operating muffler cutter. Comes equipped with four cutting blades as per illustration above.

No. MT100 Muffler Tool

No. MT100C Cutter Blade Set

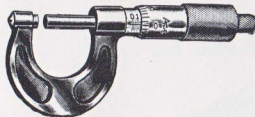
Special Automotive Micrometer Connecting Rod Journal Micrometer



This "mike" alone measures the rod journals in most cars and trucks. Its measuring range (1-1/2" - 2-1/2") is specially selected to make this an extremely useful tool in the automotive repair shop. Another feature is the location of graduations on the underside of the barrel. This makes it possible to read the measurement with the micrometer in the measuring position, thus eliminating the need of removing the tool to take the reading.

No.
M50A Micrometer

Micrometer



A precision measuring tool at a reasonable price. Correctly proportioned to minimize spring or distortion of frame. Frame is die cast from special alloy; all other parts are steel.

1. Accuracy guaranteed to .0005 in full range of micrometer.
2. Screw type anvil makes zero adjustment easily obtainable.
3. Accurate thread on spindle running in a steel bushing firmly fixed to frame, preserves accuracy in continued use.
4. Every Micrometer is checked for accuracy with gauge blocks.

No.
M100RS Micrometer

Zerk Fitting Tools



No.

GT-105 Zerk Fitting Tool

GT-106 Zerk Fitting Tool

The GT-105 tool for removing and replacing 3/8" and 7/16" hex. Zerk fittings, and removes broken fittings, and retaps 1/4" NPT. GT-106 tool for removing and replacing 5/16" and 3/8" hex. Zerk fittings and also removes broken fittings and retaps 1/4" NPT. Tools are hardened and plated. (Not Replaceable)

Ford Overhead Valve Spring Compressor



This tool is designed for compressing valve springs in Ford engines only from 1952 to date, without removing cylinder heads.

No. KD-915 Valve Spring Compressor

Air-Holds Tool Set



This new set includes a 14MM and an 18MM Air-Hold with 1/4" pipe thread for connecting coupler. The principle of the tool is that it lets the air do the work. This is used for overhead valve jobs when changing valve springs, installing valve seats and valve spring inserts.

No. OV-1418 Air-Holds Set

Electrical Circuit Tester



Here is a tester that tests circuit with power off. This tester is self-powered with two penlight batteries. This unit has many uses such as testing fuses, locating grounded wires, checking switches, setting distributor points, etc.

No. ET-233 Electrical Circuit Tester

Chevrolet, Pontiac, 8 Cyl. Valve Spring Compressor



For replacing an occasional weak or damaged valve spring on single stud rocker arm engines. Rocker arm is removed and 912 is fastened to its stud with nut. Handle has sufficient leverage to compress heaviest double valve springs. Services Pontiac and Chevrolet, 1955 to date. Heavy gauge channel steel construction with easy grip wood handle. Heat treated. black finish, 12 1/2" long.

No. KD912 Valve Spring Compressor

Superior Air Hammer



This Air Hammer has a superior metering trigger. Delivers 0 to 2800 controllable blows per minute. Hammer weighs 3½ lbs. It has a beehive type spring retainer spring so chisel can rotate in any direction. This is a quality hammer in every respect.

Order No. MC-700 Air Hammer

Cutting Tools for Pneumatic Hammers



MC-301



MC-302



MC-303

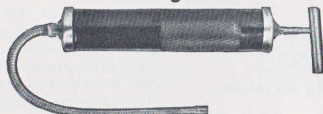


MC-304

The above illustrated tools are the most popular tools for air hammers. These are made of steel designed for tools of this type. Quality is required in tools of this design.

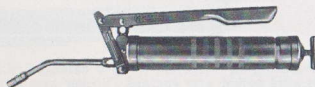
Order No. MC-301 Panel Cutter
MC-302 Cold Chisel
MC-303 Weld Buster
MC-304 Solid Punch

Suction Gun — An All Purpose Filling and Draining Unit



This DeLuxe Super Constructed unit has many purposes, such as draining and filling of wet clutches, transmissions, differentials and any place where a fluid lubricant is required. Can also be used for filling and flushing of hypoid lubricants. It has Hycar plunger which assumes positive performance both ways, forcing and suction. Capacity 20 ounces by weight or 1.5 pints by volume. No. OSG-11 Suction Gun.

Hand Grease Gun



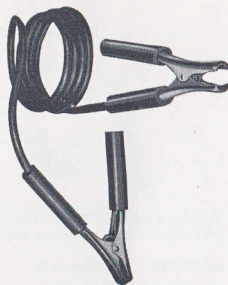
The most modern hand grease gun made. May be bulk loaded or cartridge loaded and will develop up to 8000 pounds pressure. Well balanced for easy handling and equipped with the automatic handle stop that prevents bending of piston.

No. GG1080 Hand Grease Gun

Battery Booster Cables

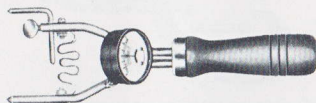
This set includes two 10 foot long cables equipped on opposite ends with negative and positive copper, vinyl handled clamps. Vinyl handles are red for positive, and black for negative. Triprene insulated non-kink cables which resist grease, acid, oil and weather.

No. BT28 Booster Cable Set
BT28C Large 300 Amp. Clips — (Insulated)
BT75C Small 75 Amp. Clips — (Insulated)



Battery Cell Testers

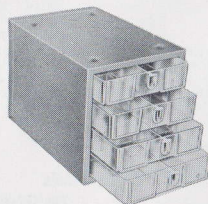
(Adjustable Leg)



These are simple, accurate, and understandable battery testers. Locates weak or shorted cells instantly. Meter is center zero calibrated 0 to 3 volts. Individual battery cell condition is shown on colored scale which indicates—CHARGE, DISCHARGE, or DEAD. Shows actual cell voltage as well as the general condition of each cell.

No. BT-12 Battery Cell Tester for 12 Volt.

Small Parts Box



A very convenient box for storage of small parts and fittings, so that you will know where they are when you need them. This box consists of four plastic drawers, with permanent partitions sealed so that small parts cannot slip under them. This box is finished in our new "Coca Cola" red enamel, smooth, attractive and easy to keep clean. Drawers are constructed so as to allow for identification markers for contents.

No. MB-4 Small Parts Box

Reverse Band Adjusting Tool



Here is a tool of special design for the 1959-1960 Ford 2-Speed automatic transmissions. This is a necessary tool in working on this transmission to make proper adjustment on reverse bands.

No. AF20X Reverse Band Adjusting Tool

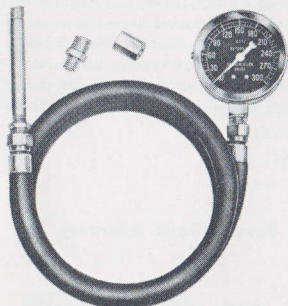
Low Band Adjusting Tool



Here is a tool especially designed for the Fordomatic 2-speed transmission to properly adjust the low band. This tool is also a necessary one for this work.

No. AF21X Low Band Adjusting Tool

Automatic Transmission Gauge



Range up to 400 lb. This range is adequate for all automatic transmission measurements.

Fittings are supplied which will make it possible to make any 1/8" or 1/4" pipe connection (male or female). A long nipple is supplied so a connection can be made through the floor boards when testing hydramatic transmissions.

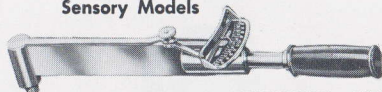
A 4' hose, supplied with the gauge, permits holding the gauge in the hand while making driving tests. The hose has a 1200 lb. bursting point under test.

The gauge has another use which is, measuring engine oil pressures.

No. ATG-300

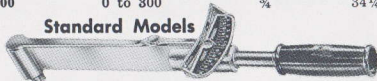
MAC TORQUE WRENCHES

Sensory Models



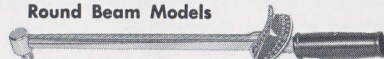
CATALOG NUMBER	CAPACITY INCH POUNDS	DRIVE SQUARE SIZE (INCHES)	OVERALL LENGTH (INCHES)
S300-I	0 to 300	3/8 or 1/2	16
S600-I	0 to 600	3/8 or 1/2	16
S1200-I	0 to 1200	1/2	17 1/2
S1800-I	0 to 1800	1/2	20 1/2
S2400-I	0 to 2400	1/2 or 3/4	28 1/2
S3600-I	0 to 3600	3/4	34 1/4
	FOOT POUNDS		
S25	0 to 25	3/8 or 1/2	16
S50	0 to 50	3/8 or 1/2	16
S100	0 to 100	1/2	17
S150	0 to 150	1/2	20 1/2
S200	0 to 200	1/2 or 3/4	28 1/2
S300	0 to 300	3/4	34 1/4

Standard Models



CATALOG NUMBER	CAPACITY INCH POUNDS	DRIVE SQUARE SIZE (INCHES)	OVERALL LENGTH (INCHES)
F300-I	0 to 300	3/8 or 1/2	16
F600-I	0 to 600	3/8 or 1/2	16
F1200-I	0 to 1200	1/2	17 1/2
F1800-I	0 to 1800	1/2	20 1/2
F2400-I	0 to 2400	1/2 or 3/4	28 1/2
F3600-I	0 to 3600	3/4	34 1/4
	FOOT POUNDS		
F25	0 to 25	3/8 or 1/2	16
F50	0 to 50	3/8 or 1/2	16
F100	0 to 100	1/2	17 1/2
F150	0 to 150	1/2	20 1/2
F200	0 to 200	1/2 or 3/4	28 1/2
F300	0 to 300	3/4	34 1/4

Round Beam Models



CATALOG NUMBER	CAPACITY INCH POUNDS	DRIVE SQUARE SIZE (INCHES)	OVERALL LENGTH (INCHES)
DR25-I	0 to 25	3/8	8 1/2
DR100-I	0 to 100	3/8	10 1/2
DR200-I	0 to 200	3/8	11 1/2
DR300-I	0 to 300	3/8 or 1/2	15 1/2
R600-I	0 to 600	3/8 or 1/2	15 1/2
R1200-I	0 to 1200	1/2	19 1/2
R1800-I	0 to 1800	1/2	19 1/2
R2400-I	0 to 2400	1/2	21 1/2
	FOOT POUNDS		
DR25	0 to 25	3/8 or 1/2	14 1/2
R50	0 to 50	3/8 or 1/2	15 1/2
R100	0 to 100	1/2	19 1/2
R150	0 to 150	1/2	19 1/2
R200	0 to 200	1/2	21 1/2
DR300	0 to 300	3/8	33

Spring Tester



CATALOG NUMBER	CAPACITY POUNDS
SPT	400

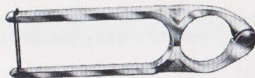
Governor Sleeve Aligning Tool



For all 1951-55 HYDRA-MATIC transmissions. This precision-machined concentric Gauge fits snugly over Governor sleeve, may be used when transmission is in or out of car to assure proper alignment of Governor in housing.

Tool No. AGS-1X

Oil Delivery Sleeve Ring Compressor



For all 1946-55 HYDRA-MATIC transmissions. Compressor prevents breakage of lower oil seal rings when installing oil delivery sleeve into front clutch unit. Compressor is used in a similar manner to prevent breakage when rear clutch unit is assembled over upper oil delivery sleeve rings.

Tool No. AOD-1X

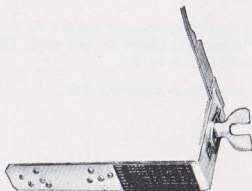
Throttle Linkage Pins



For most HYDRA-MATIC transmissions. These precision ground Pins are used as specified by car manufacturers for adjustment of external throttle linkage.

Tool No. ATL-1X

Universal Throttle Arm Gauge



For all 1946-55 HYDRA-MATIC transmissions. Gauge is used during adjustment of throttle linkage to check outer throttle arm for precise position (front to rear and left to right) insuring proper relationship between movement of carburetor throttle valve and transmission throttle arm throughout entire driving range. Gauge complete with Set of 3 Throttle Linkage Pins (ATL-1X).

Tool No. ATL-2X

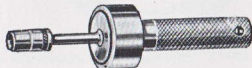
Kickdown Band Adjusting Tool



For all POWERFLITE transmissions. Tool may be used with transmission in or out of car — does not require removal of floorboard or access cover. Torque mechanism is pre-set to adjust Kickdown Band in accordance with manufacturer's specifications.

Tool No. APF-11X

Reverse Band Adjusting Tool

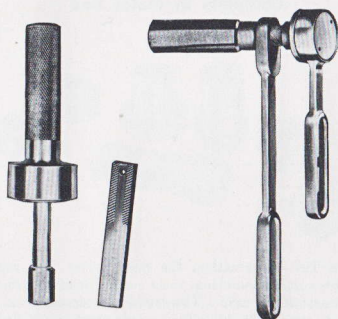


For all POWERFLITE transmissions. This time-saving Adjusting Tool can be used with transmission in or out of car. Trouble-free torque mechanism is pre-set at proper tension, automatically adjusts Reverse Band to manufacturer's specifications.

Tool No. APF-10X

Fordomatic-Mercomatic

Automatic transmission adjusting tools



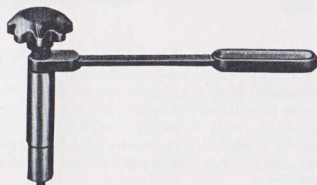
No. AF-10X—Front Band Adjusting Tool

Of highest quality alloy steel, this precision Tool is ruggedly made for long service life, compactly designed for ease and convenience of use. Accurate, friction disk Torque Screw Driver is pre-set for proper torque, automatically prevents over-tightening of adjusting screws. Gentle clutch release prevents sudden breakaway and skinned knuckles. Non-slip, knurled hand-grip. Tool complete with carefully machined $\frac{1}{4}$ " block-type gauge.

No. AF-11X—Rear Band Adjusting Tool

Precision-made of finest alloy steel, this useful Tool assures fast, accurate adjustment of transmission rear bands. Slotted Wrench with two flat sides provides sure grip, avoids damage to adjusting screw. Precision-broached 12-point Socket for accurate fit on lock nut. Sturdy, drop forged lever-type Wrench Handles with comfortable, palm-fitting grips. Friction disk Torque Wrench accurately pre-set for proper torque on adjusting screw.

Transmission Adjusting Tool for Dynaflo and Powerglide

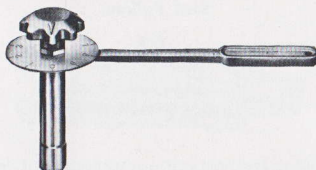


For Dynaflo band adjustments on all 1948-1955 Buicks, and Powerglide band adjustments on all 1950-1953 Chevrolets: this practical Adjusting Tool makes accurate adjustment easy.

Rugged construction assures years of trouble-free service. Sturdy, forged handle with comfortable hand-hugging grip. Outer 12-point Socket for gripping adjusting-screw lock nut. Finger-grip Adjustment Knob with pointer, and inner Blade for setting adjusting screw.

No.
ADP-10X Length $11\frac{3}{4}$ "
ADP-11X Hex Adaptor — 1953-55 Chev.

Hydra-matic Band Adjusting Tool



Especially designed for external adjustment of front and rear bands on Hydra-matic transmissions, this useful Tool does not require removal of transmission oil pan and may be used with or without tachometer.

Rugged construction assures years of trouble-free service. Sturdy, forged handle with comfortable, hand-hugging grip. Finger-grip Adjustment Knob with pointer, and heavy-gauge metal Indicator Dial numbered to show tenths of a turn. Wrench End consists of two Sockets . . . Inner Socket with two flat sides to provide sure grip on band-adjusting screw—Outer, 12-point Socket for adjusting-screw lock nut.

CAR GUIDE

OLDSMOBILE
CADILLAC
No. AH-10X

PONTIAC
LINCOLN

NASH
HUDSON

KAISER
FRAZER



Hydra-matic Rear Band Adjustment Gauge

For internal adjustment of rear bands (oil pan removed), this snap-type Gauge assures accurate adjustment meeting manufacturers' specifications.
No. AH-12X

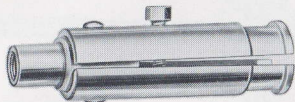
Hydra-matic Front Band Adjusting Tool



This accurate Tool is designed for internal adjustment (transmission oil pan removed) of front bands on Hydra-matic transmissions. Essential for transmission overhauls, the Tool may be used while Hydra-matic unit is in the car or on the bench. Combines ruggedness and precision. Sliding gib assures accurate adjustment.

No. AH-11X

Automatic Transmission Seal Pullers



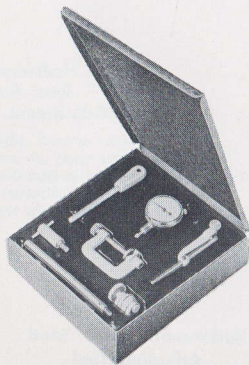
For all 1951-54 FORDOMATIC and MERCOMATIC transmissions. Also used for all 1946-55 HYDRAMATIC transmissions except Cadillac, Lincoln, and 1952-55 Oldsmobile. Used in conjunction with slide hammer, the Seal Puller permits quick removal of the rear bearing retainer oil seal. May be used with transmission in or out of vehicle.

No. ASP2X

For 1946-57 Cadillac, 1952-57 Oldsmobile, 1949-54 Lincoln, 1956-57 Pontiac and Nash. Used in conjunction with slide hammer, the Seal Puller permits quick removal of the rear bearing retainer oil seal. May be used with transmission in or out of vehicle.

No. ASP1X

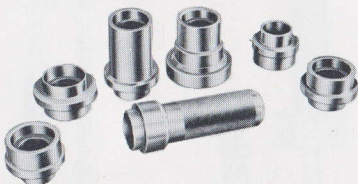
Dial Indicator



For all automatic transmissions. The dial indicator is used to detect governor runout, torus cover hub runout, and, in conjunction with the Dial Indicator Extension Rod and Mainshaft End Play Checking Tool as shown in illustration, to check mainshaft end play in all Hydramatic transmissions. In addition, this handy Gauge is useful for many other service operations on Hydramatic and other automatic transmissions, as well as during repair of engines, differentials, standard transmissions, clutches, etc., in accordance with car manufacturers' instructions.

No. ADI-1X

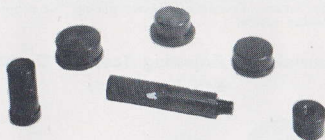
Seal Driver Set Complete in Metal Box



This one Tool combination, the Seal Driver Set, replaces more than a dozen individual tools costing many times more. For Hydramatic, Dynaflo, Powerglide, Fordomatic and Mercomatic, this money-making Tool speeds servicing of Cadillac, Oldsmobile, Pontiac, Kaiser, Nash, Hudson, Lincoln, Buick, Chevrolet, Ford and Mercury automatic transmissions. The rugged, top quality alloy steel Seal Driver Set, with rustproof Black Oxide finish, provides the right combination for installing both front and rear oil seals FAST and EASY. Permits installation of seals without removing pumps from transmissions. Proper fit prevents the seal distortion that causes oil leakage.

No. ASD6X

Bushing Remover and Installer Set

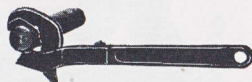


For all 1946-59 HYDRAMATIC transmissions. The Bushing Remover & Installer Set is used as illustrated to replace worn bronze and babbitt bushings quickly and easily. It saves time and money by eliminating the need to replace costly transmission components simply to remedy bushing wear. Carefully engineered and precision made, these useful Tools provide the accurate fit that prevents damage to bushings during removal and installation.

Part No.	Description
AH-1X	Set, complete with Metal Box, Driver and 5 Adapters
AH-2X	Adapter: Front Pump Bushing
AH-3X	Adapter: Rear Clutch Drum Bushing
AH-4X	Adapter: Oil Delivery Sleeve Bushing
AH-5X	Adapter: Front Drum Bushing
AH-6X	Adapter: Reverse Internal Gear Bushing
AH-7X	Driver

One Hander Wrench — Ratcheting

PIPE JAW Fits Pipe or Nut Deep Serrations
NUT JAW Always Fits Tight, Saves Nut Wear



Nut Wrench — Chrome vanadium steel.

Tool No.	Size	Size Nuts	Jaw Thickness
NJW-6	6"	3/16 — 3/8"	1/4"
NJW-8	8"	5/16 — 5/8"	5/16"
NJW-10	10"	3/8 — 3/4"	3/8"
NJW-12	12"	1/2 — 1 1/4"	7/16"

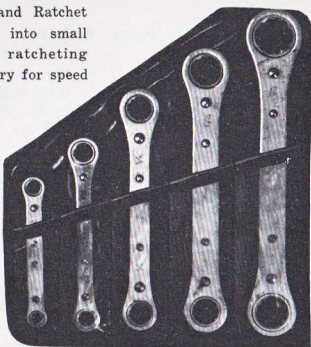
Pipe Wrench — Chrome vanadium steel.

Tool No.	Size	Size Pipes	Jaw Thickness
PJW-6	6"	1/8 — 3/8"	1/4"
PJW-8	8"	1/4 — 3/4"	5/16"
PJW-10	10"	3/8 — 1"	3/8"
PJW-12	12"	1/2 — 1 1/4"	7/16"

Ratchet Box Wrench Set

A Box Wrench and Ratchet combined to get into small space where a ratcheting wrench is necessary for speed and convenience and many general requirements for this type wrench.

Sold individually and in sets.



No.	No.
RBW-5—1/4" x 5/16"	RBW-20—5/8" x 11/16"
RBW-10—3/8" x 7/16"	RBW-25—3/4" x 7/8"
RBW-15—1/2" x 9/16"	RBW-30—5/8" x 3/4"
	RBW-35—13/16" x 15/16"

RBW-50S—Set of five complete in kit. Consists of RBW-5 through RBW-25. RBW-30 and RBW-35—Order individually.

Scratch Awl



This Scratch Awl is not a 10c item, but a quality Tool. The blade extends completely through the handle. Highly ground and polished. Used for Tire Work and many miscellaneous uses. Priced right for the DeLux Awl. (Not Replaceable)
No. SA-800

Wheel-Powerench (for Budd Dual Wheels)



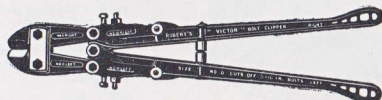
Geared for stubborn nuts. This wrench is four wrenches in one: inner wrench, outer wrench, plus two speed wrenches. Has 3 to 1 ratio on hex nut, loosens square nut, "Speeds Off" hex nut, and square nut, and also will remove nuts from broken studs. A WRENCH WITHIN A WRENCH. Inner wrench anchors to square nut while outer wrench applies 3 to 1 ratio on hex nut.

PW124 set includes outer wrench, inner wrench, and 2-20 1/2" speed handles. Adaptors and 36" handle as shown above are extra as listed on price sheet.

Adaptors available for motor wheel, inner cap nut, and for 1/2" square drive and 3/4" square drive, which enables the Powerench to be used with all standard 1/2" and 3/4" sockets.

No.	Powerench Set
PW-124	1/2" Drive Socket Adaptor
PW-15	3/4" Drive Socket Adaptor
PW-17	3/4" Drive Socket Adaptor
PA-12	Motor Wheel Adaptor
PA-64	Inner Cap Nut Adaptor
PT-36	36" Tube Handle

Bolt Cutters (Improved Type)



Style No. BC 18S

STYLE S cutters are designed with stepped-up cutting power — Easier to operate — maintained tension — streamlined — no protruding bolts. Jaw drop forged of special tool steel. Not subject to replacement when used on case hardened material.

No.	No.
BC 18S — 18" clipper cut	BC 18J — Jaws only
BC 24S — 24" clipper cut	BC 24J — Jaws only

Complete Cutter Heads

No. BC 18CH — 18"	No. BC 30CH — 30"
No. BC 24CH — 24"	No. BC 36CH — 36"

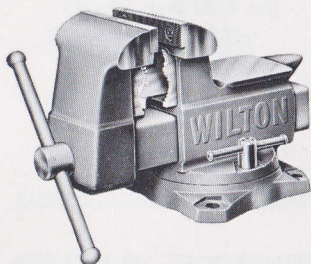
Mechanic's Pocket Knife



A durable heavy-duty knife, made of the finest quality steel. Has a 2 1/2" blade and a 1 1/2" blade. Brass partitioned for long and rugged wear.

No. PK-5

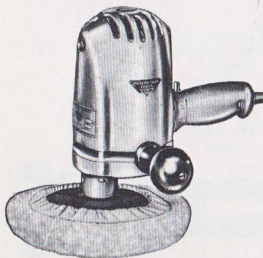
Wilton Mechanics' Vise



These vises are designed with the mechanic in mind. Gives greater jaw depth, smoother, more positive clamping action, rugged, massive, life time construction. Harder steel replaceable pipe jaws. It has deep cut serrated steel top jaws. Polished large anvil.

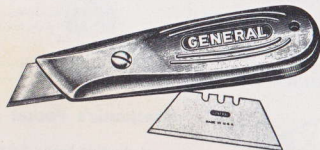
No. V-644 4 1/4" Vise—26#
No. V-645 5" Vise—34#

Polisher-Sander



The newest and latest thing in a streamlined die-cast aluminum auto polisher-sander. It has these exclusive features: 3200 RPM; 6" backing pad; side handle, capable of being positioned for convenience of right or left handed operation; and perfect balance, will not tip over, will not mar or scratch the surface. Comes complete with lamb's wool bonnet, rubber backing pad, and two sanding discs. Note: When drill is wanted just attach 3/8" chuck. This makes a 3 in 1 tool.

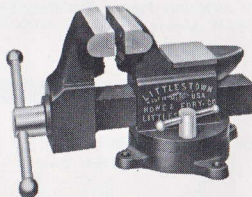
No. P-888
No. P-888B—Bonnet only.



Here is a mighty handy knife for every mechanic. The knife comes equipped with 5 high carbon steel blades in handle. The blade is reversible making double use, and also adjustable for length of cut. Firm grip, all metal handle.

No. PK850 Knife Complete
No. PK851 Package of 5 Blades

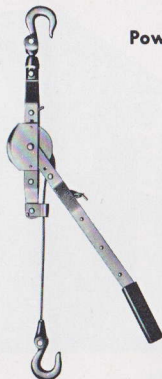
Channel — Master Vise



These are rugged and durable vises. Steel channel bar completely covers screw and has smooth, rigid, sliding action. Heavy, over-size steel parts, cast in pipe jaws. Overall rust proofing finish with body lacquered-bright steel parts. Available in three sizes.

	Width of Jaw	Jaws Open	Pipe Jaws
No. VM143 1/2	3 1/2"	3 1/2"	1/4" x 1 1/2"
No. VM144	4"	4"	1/4" x 1 1/2"
No. VM145	5"	5"	1/4" x 2"

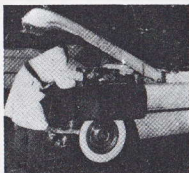
Power Pull Tool



With this Power Pull Tool it takes only minutes to align fenders, hoods and rear decks with the fender strap attachments.

- No. PP50 Power Pull Tool With Straps
- No. PP50T Pulling Tool Only
- No. PP50S Straps Only (pair of 2)

Fender and Seat Covers



These covers are designed with a fabricated neoprene oil and gasoline resistant rubber with a full backing of cushion foam rubber. The finish on the bottom side is cushion foam rubber, to create

a strong adhering quality when placed over the fender, or seat.

No. FC103 Fender Cover size 26" x 44"
No. SC100 Seat Cover size 33" x 56"

Abrasive Grinding Wheels

These wheels are made from manufactured aluminous oxide abrasive . . . fully vitrified—giving you the finest, best cutting wheels you ever used. All 60 Grit wheels are grade “M” for fine general purpose work. All 36 Grit wheels are grade “O” which is a harder grade and better for heavier and rougher grinding.



No.	Diameter	Width	Arbor	Grit
GW8	6"	½"	½"	60
GW10	6"	½"	½"	36
GW12	6"	¾"	½"	60
GW14	6"	¾"	½"	36
GW22	6"	¾"	¾"	60
GW23	6"	¾"	¾"	60
GW24	6"	¾"	¾"	36
GW25	6"	¾"	¾"	36
GW26	6"	1"	¾"	60
GW27	6"	1"	¾"	60
GW28	6"	1"	¾"	36
GW29	6"	1"	¾"	36

Grinding Wheel Dresser and Cutter



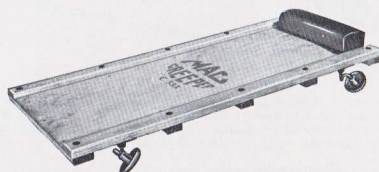
The sturdy handle of this tool provides a grip that really fits the hand. The cap is designed to serve directly as the upper clamp for the Spindle Bearing and the entire assembly. Each set of cutters is provided with a sleeve which eliminates spindle wear. Cutters are milled and have uniform sharp teeth, and are heat treated to insure maximum resistance to wear. They retain their sharp edge until completely worn out.

No.

WDO —Grinding Wheel Dresser.

WDOC—Grinding Wheel Star Cutters. 1½" Diameter. Set includes 4 cutters, 2 washers and sleeve.

Mac Creeper



This creeper is sturdy, with a kiln dried oak frame, strong plywood platform, completely finished and varnished. It is equipped with 2-1/2" Roller Casters. Rolls over rough floors, casters do not clog with dirt and grease. This is very durable but light in weight.

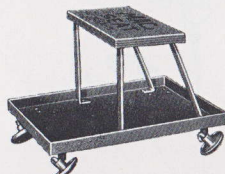
Separate caster sets (4) are available for replacement on all types of creepers.

No.

C333—Creeper

C3C—Creeper Caster (Set of 4)

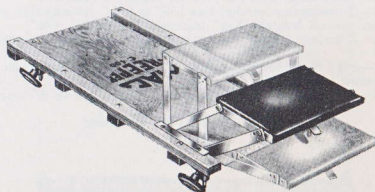
Mac Creeper Seat



For those jobs where the repairman must work in a sitting position. This seat lessens fatigue and increases efficiency. It is ideal for brake work, fender and frame work, wheel alignment and many other jobs of this nature. It is constructed with strong steel frame, kiln-dried hardwood seat surface with tool tray below, and roller casters as supplied on the Mac creeper.

No. C3-S

Mac "Adjustable Head" Creeper

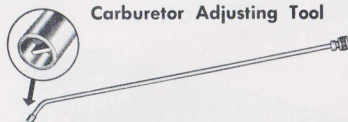


Creeper built from kiln dried oak frame, with plywood platform. Has highly varnished finish. Equipped with 2½" roller casters. Features adjustable head with three comfortable positions.

No.

C400—Adjustable Head Creeper

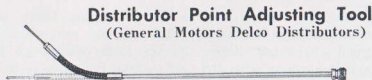
C3C —Creeper Casters (Set of 4)



Carburetor Adjusting Tool

This tool is designed to get at carburetor adjusting screws which are hard to reach. Has recessed screw bit in housing. Made from one-piece hollow tubing with knurled adjusting handle, assuring easy, positive application.

No.
CA-75 Carburetor Adjusting Tool.

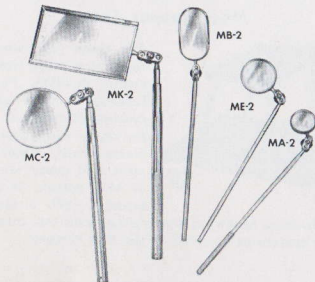


Distributor Point Adjusting Tool
(General Motors Delco Distributors)

Points can be easily adjusted with this flexible head-all position tool. Merely turn knurled knob to obtain proper point setting. This tool makes the job simple, eliminates possibility of burns or shocks.

No.
DT-50 Distributor Point Tool.

Mechanic's "All Angle" Mirrors



For a quick look into hidden spots, 5 sizes and shapes for mechanics' inspection needs.

MA-2—Easy hold, knurled handle, round $\frac{3}{4}$ " mirror.

MK-2—Telescoping handle, has $2\frac{1}{2}$ " x $3\frac{1}{4}$ " rectangular mirror, overall length $15\frac{1}{2}$ " telescoped—folded, $6\frac{1}{2}$ ".

MB-2—Knurled handle, overall length $8\frac{1}{2}$ ". Oval mirror $1\frac{1}{2}$ " x $2\frac{1}{2}$ ".

MC-2— $2\frac{1}{4}$ " diameter round mirror. Has telescoping handle, overall length $13\frac{1}{2}$ ".

ME-2— $1\frac{1}{4}$ " diameter round mirror. Knurled handle $8\frac{1}{2}$ " long.

Dual Cup Valve Grinder

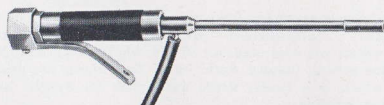


Here is the accepted hand grinding valve grinder with cups $1\frac{1}{8}$ " and $1\frac{3}{8}$ " diameter. The cups are impervious to oil, grease or gasoline. Thin walls for greater suction.

No. VG505 Valve Grinder

No. VG17 $3/4$ " Valve Grinder Cups Only

Lonn "Alspray" Gun



A Cleaning Spray-Gun

An improved spray unit for applying kerosene or other cleaning solvents with compressed air. Quickly removes dirt, grease and oil from engines, parts, motors, generators and machinery. Operates without adjustment on any air pressure from 35 to 175 pounds.

No.
CG-13 Spray Gun (Includes 6 Ft. Neoprene Hose).

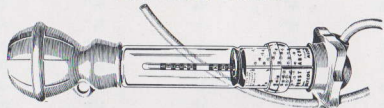
Battery Hydrometer



Easy to read with clear vision of float. Has tapered glass barrel well annealed. Float has 3-color scale showing charge condition of battery as well as specified gravity readings. 2-ounce red rubber bulb and end piece made of high-grade acid-resisting rubber.

No.
BT-11 Battery Hydrometer.

Anti-Freeze Testers



This tester is designed to test everything, such as alcohol, prestone, zerec, zeronone methanol, etc. It has a magni-vision calculator with enlarged figures for easy reading. Zebra scale on float. Thermometer and chart hermetically sealed against moisture. Rubber cushioned for longer life.

No. FM556 Anti-Freeze Tester

Bernz-O-Matic Carry-All Torch Kit



Here is a new Bernz-O-Matic Carry-All Torch Kit. This kit includes propane tank, pencil, utility, soldering and flame spreader tips and also a flint sparklighter. Contained in all-purpose, metal carrying case.

No. TX25 Torch Kit Complete

No. TX9 Refill Tanks for TX25

Double End Combination Ford Valve Lifter



This powerful 26" Bar covers all Ford V-8 servicing requirements. One end services 1932 to 1948 models, the opposite end services 1949 and later models.

No.
VL-2 Ford Valve Lifter

Length
26"

KEY-BAK



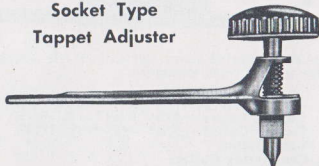
Here is a most handy way to store keys, and at the same time put them in immediate reach. The Key-Bak reel is 24" long, stainless steel chain reaches all locks, swivel prevents chain twisting. Furnished in either Belt-Loop or Clip-On style.

No. KB3 Belt Loop Style

No. KB5 Clip On Style

No. KB10 Three of each on Display Board

Socket Type Tappet Adjuster

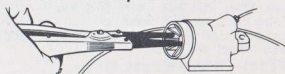


A revolutionary new type of Tappet Adjuster. Light in weight but sturdy in construction. Regular 1/2" sockets are used with these adjusters. They have a two-position adjustment on the screw shank to allow longer reach where needed. Just another "Mac" time-saver for the professional mechanic.

No. TA-5—Tappet Adjuster—Short Bit

No. TA-6 Tappet Adjuster—Long Bit

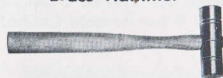
Brake Piston Puller, Lockheed



Pointed, tempered jaws reach into cylinder and securely grip the inside of the piston for easy removal. 6 3/4" long.

No. KD294 Brake Piston Puller

Brass Hammer

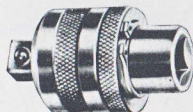


A hammer designed for driving on or off, bearings or bushings, or any other parts requiring hard taps without danger of injury. Has genuine Hickory handle. No. PH32H.

No.
BRH-15

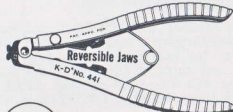
Weight
1 lb.

Ratchet Adaptor



No.
RA38 3/8" Drive Ratchet Adaptor
RA12 1/2" Drive Ratchet Adaptor

Molding Clip Installing Tool



Especially designed for installing molding clips in late General Motors cars. Small, easy to handle. Length—5 1/4", hardened jaws, rust-proofed finish.

No. KD-441 Molding
Clip Installing Tool

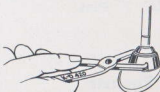


Radio Aerial Plier

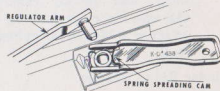


A spanner-type plier for removing and installing the cone shaped nut used on many fender aerials of Ford, Mercury, Lincoln, Nash, Cadillac and Packard.

No. KD420 Aerial
Plier



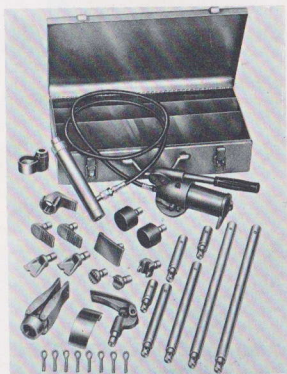
Window Regulator Arm Remover



Serves Ford, Lincoln and Mercury since 1952, without taking roller assemblies apart. This tool releases the spring clip which secures the regulator arm in window assemblies so that the arm can be lifted off.

No. KD438 Window
Regulator Arm
Remover

Speed Midget Set with EZ-E-ON Attachments and 4 Ton Remote Control Jack



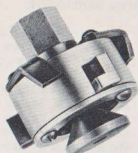
So wide in work-scope is the SPEED MIDGET PF-7 that, with its 31 extensions and special-purpose attachments, you have all the equipment you need for any push-spread job. Not scattered around the place, but right at car-side, in the convenient carrying case. You will be proud of your SPEED MIDGET—and pleased with those EXTRA PROFITS it will bring.

This PF-7 SET INCLUDES 31 PIECES:

- | | |
|------------------------------------|----------------------------|
| 1 SM 200 4 Ton Remote-Control Jack | 1 SM 52 12" Tube |
| 1 SM 39 Jack Body Toe | 2 SM 53 3" Tube Extensions |
| 2 SM 40 Ram Extension Toes | 1 SM 55 5" Tube Extension |
| 1 SM 41 Jack Base | 1 SM 58 8" Tube Extension |
| 1 SM 42 V Notch Cap | 1 SM 63 Pull Adapter |
| 2 SM 43 Rubber Heads | 1 SM 75 Spreader |
| 2 SM 44 Offset Spreading Toes | 1 SM 80 Adjustable Spoon |
| 2 SM 49 Ram Caps | 1 SM 98 Carrying Case |
| 2 SM 50 20" Tube Extensions | 8 SM 7 Pins |

No. PF-7 Speed Midget Set

Small Bore Cylinder Ridge Reamer



Will remove the unworn ridge in cylinders with diameters from 2" to 3". Three cutting blades each piloted to prevent overcutting, accordingly, and quickly removes the unworn ridge leaving no offset of solder in the cylinder wall.

No. RR150 Small Bore Cylinder Ridge Reamer

No. RR160 Set of 3 blades only

Zirc-Fitting Cleaner



This new tool frees frozen fittings instantly. The tool generates hydraulic pressures up to 1000 pounds per square inch when tapped with a 4-pound hammer.

No. GT200 Zirc-Fitting Cleaner

Ezy-Edger



Saves time straightening edges of drip moldings, doors, trunk lids, hoods, etc.

No. BFP4 Ezy-Edger

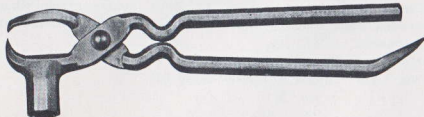
Standard Ring Groove Cleaner



All parts as illustrated above carried in stock. Merely change cutter for type of work necessary.

- No.
 RG-3 Ring Groove Tool with Two Cutters
 RG-3A Cleaner Cutter — 5/64"-5/64"-5/32"-3/16"
 RG-3B Cleaner Cutter — 3/32"-1/8"-5/32"-3/16"
 RG-3C Land Cutter
 RG-3D Chamfering Cutter

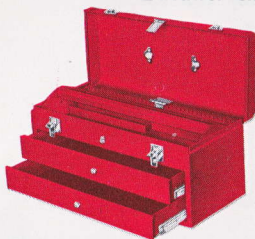
Wheel Weight Plier



Here is a new wheel weight plier, with a combination of good features. Plier end has short flat angle surface on one jaw, and sharp point on the other, giving it a positive grip. It has hammer stud and also a thin pry on one handle end for those stubborn wheel weights.

No. WP530—Wheel Weight Plier.

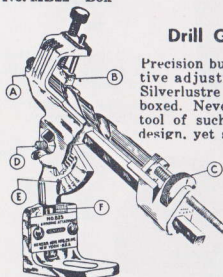
2-Drawer Chest



Newest, smallest, most compact portable chest . . . but with big-size chest features. Carrying handle on top, PLUS full-length Tote Tray and 2 full-width large capacity drawers, make it ideal for carrying "on-the-job" tools. Drawers have full-width form fitting pull-out handles and positive stops on their easy-acting compound slides. Locking bar automatically secures drawers when cover is closed.

SPECIFICATIONS

Size of Chest.....	8 1/2" x 9 1/2" x 20"
Packing.....	1 Chest per Carton
Shipping Wt. per Carton.....	20 lbs.
Size Tilt-in Top.....	2 3/4" x 8 1/2" x 20"
Size Tote Tray.....	1 3/4" x 7 3/4" x 19 1/2"
Number of Drawers.....	2
Size of Drawers.....	2 1/4" x 8" x 18"
Sparkling Red baked enamel with Red Drawers and Tray.	
No. MB22 Box	



Drill Grinding Attachment

Precision built—fast and accurate—positive adjustment—moderately priced. Silverlustré finished and individually boxed. Never before has there been a tool of such precision construction and design, yet so moderate in cost.

For correctly reshaping drills of the following sizes:
 from 1/8" to 3/4" Fractional
 from No. 1 to No. 30 Number Size
 from A to Z Letter Size
 from 3.0 to 19.0 Millimeter

No. DG-825

Vacuum Lifters



Made of Oil Resisting Neoprene. Designed for safe easy handling of sheet metal and glass. (Not Replaceable)
 No. BT-1912.

Economy Tool Chests and Rollaways



Economy Tool Chest

This economy chest has big capacity. 26" length fits neatly into top of our #MB150 roller cabinet illustrated below. Full-sized, one-piece drawer frame assures long, trouble-free service. Heavy-duty, plated carrying handles. Has large tote tray with non-slip V-handle. 3-way, fool-proof, safety lock secures both the sides and bottom of front panel.

No. MB100 Economy Chest

Overall size 12" x 14 1/2" x 26"

Economy Rollaway Cabinet . . . with Exclusive Roller Slides



The only rollaway cabinet in its price class with drawers that use heavy-duty roller slides instead of usual chest-type telescoping slides. Drawer unit electrically welded to cabinet on all sides . . . makes center of cabinet as strong as top and bottom. Jack-knife front cover slides into cabinet top. Heavy-duty ballbearing plate-type 3" rubber casters.

No. MB150 Economy Rollaway

Overall size 18" x 26 1/2" x 32 1/4"



Mechanic's Box



All-Purpose streamlined Box with round corner cover. Electrically welded seams throughout. Added features include two heavy suitcase bolts, hasp and staple, and substantial handle for convenient carrying. Full size lift-out tray with formed handle and three compartments providing additional space. Finished in smooth "Coca Cola" red enamel. Packed four to standard carton.

No.
MB-6—Size 20" x 8½" x 9½"
TT-6—Tote Tray only

General Purpose Bench-Size Tool Chest



A very attractive, sturdy and durable Tool Chest. Finished in smooth "Coca Cola" red enamel, easy to keep clean and neat, free from grease stains. Equipped with three drawers with sturdy slides and stops . . . All three drawers are 1¾" deep by 20¼" long, by 8¾" depth from front to rear. Top section is 22½" in length, with a clearance of 3¼". This section is equipped with a permanent divider for sockets, and also has a full size tote tray, size 18½" by 7¾" with divider strip in tray for sockets. Top section is 10" from front to rear. Has nickel finish drawer pulls and sturdy carrying handles on both sides. Reinforced folding cover which lies back out of the way when open and completely seals and locks the total chest when closed. Equipped with sturdy lock and key. This is a rugged box, of heavy gauge built to take a lot of punishment.

No.	Length	Depth	Height
MB-26 Tool Chest Complete	22½"	10"	10½"
TT-26 Tote Tray only			

Gable Top Tool Box



A heavy duty mechanic's box with full size tote tray. Made especially for repairmen, industrial workers, garagemen
Weight—8½ lbs. Weight per carton—10 lbs. Size Box 19" x 7" x 9".

No. MB5 Tool Box
No. TT-5 Tote Tray only.

Deluxe Midget Box



A small heavy-duty tool chest, finished in smooth "Coca Cola" red.

Heavy Gauge Metal
Top-Slide Compartment

Rugged Clamp-type Lock

Green Flox Interior Full Hinge



The features of advantage to this box are many. It is the ideal box for ignition, carburetor, generator, etc., tools. Small, but large enough to have adequate tools along for the job.

No. MB-10 Size—12" Length—7¼" Depth—3½" Height.

Ignition Tools Box



A compact, attractive and sturdy box, for your storage of ignition tools, and small socket sets and attachments. This box is finished in our new smooth "Coca Cola" red enamel. It has a top compartment for storage of Sockets and Attachments, and a full drawer below for all ignition wrenches, etc. It gives you your complete ignition tune-up tools in the palm of your hand. It is constructed in the same sturdy manner as all larger tool boxes, built to stand the gauff.

No. MB-1 Ignition Tools Box—8" Long, 4" Wide, 2" Deep.

Royal Deluxe Tool Chest and Roll-Away

The Finest!!



No. MB-25 Tool Chest.

A byword for mechanics tools. Engineered and designed primarily for mechanics who want the best. All drawers slide smoothly on compound slides with stops. Tote Tray in top compartment standard equipment, as well as felt in top center drawer. Built-in three position lock—center and both sides for greater protection. Available with adjustable dividers for complete utilization of drawers. All hardware nickel plated. Finished in attractive smooth "Coca Cola" red enamel for easy cleaning.

MB-30 Rollaway Cabinet.

Designed to accommodate MB-23 and MB-25 or as an independent unit. All drawers equipped with new ROLLER SLIDES for maximum smoothness and are removable by merely lifting up and out. Roomy compartment at bottom for large tools or miscellaneous clothing. Valve holder on right side and handle on left side for easy movement, on heavy duty rubber composition, ball bearing casters—2 with brakes and 2 without. Special reinforcing plates are used where casters are bolted to the bottom and also where the side handle is located. One folding panel completely locks drawers and bottom compartment. Finish "Coca Cola" red smooth enamel.

THESE MAC units are the envy of every shop.

DIMENSIONS

No.		Length	Depth	Height
MB-25	Deluxe Tool Chest	26"	12"	14½"
MB-30	Royal Deluxe Roll-Away	26½"	18"	32½"
TT-30	Tote Tray	18½"	7½"	2"
MB-30C	H. D. Caster (Set of 4)			
MB-30S	Std. Caster (Set of 4)			

Deluxe Auxiliary Chest



This is the answer to the mechanic needing additional storage space, and yet matching his present equipment. Finished in our smooth "Coca Cola" red enamel and designed to fit on top of the MB-30 Rollaway, or underneath the MB-25. Equipped with two deep drawers measuring 3" deep, and 23" long. It is equipped with a full front panel which has a positive lock. This one answers that extra storage problem.

No. MB-23 Size—26" Length—12¼" Depth—10½" Height.

Auxiliary Drawer Unit



This two drawer unit is designed to give additional drawer room to our No. MB30 cabinet. Fits easily and neatly into the bottom open section of the cabinet.

Weight Packed 29 lb.

Weight Unpacked 26 lb.

Size of Drawers 3½" x 21" x 16½"

No. MB30AD—Auxiliary Drawer Unit.

Metal Box Drawer Dividers

We carry two types of drawer dividers, one which is an adjustable type, the other a stationary type, as listed below.

Adjustable Type

No. MB25D For drawers in boxes Nos. MB23, MB25, MB65, MB100.

No. MB30D For drawers in boxes, Nos. MB30, MB30AD, MB75, MB150.

Stationary Type

No. MBD-25 For drawers in boxes Nos. MB23, MB25, MB65, MB100.

No. MBD-30 For drawers in boxes Nos. MB30, MB30AD, MB75, MB150.



"Imperial" DeLuxe Tool Chest and Roll-Away



THE ELITE

No. MB65 TOOL CHEST

This chest contains 10 drawers. These are so arranged and designed for easy and efficient tool storage. The chest includes a Tote Tray. The drawers are flush, which makes more useable drawer space. Front panel eliminated making a cleaner design. Three point locking bar locks all drawers when cover is closed. Keyed tumbler locks securely lock the cover and drawers. Highly polished chrome handles. Quality has been stressed in every respect. Smooth Red Enamel.

No. MB75 ROLLAWAY CABINET

This cabinet contains 10 drawers so arranged for easy and efficient tool storage. The drawers are flush, making more

Roll-Away Cabinet Workbench



The above illustration shows our MB30 Cabinet used with our MB40 Workbench and our MBL-1 Light Assembly attached. This workbench may also be used with our MB75 Cabinet, shown at left. Workbench has heavy gauge formed steel top, 36" wide, 21" deep. This unit has one four-inch drawer with sliding parts tray, which is equipped with lock and key. May be assembled to either Roll-Away Cabinet with four sheet metal screws. Can be purchased with or without light assembly. This provides the mechanic with storage space and at the same time a mobile workbench. Finish "Coca-Cola" Red enamel with polished hardware.

No.
MB40 Workbench Top (with drawer)
MBL-1 Light Assembly Complete

useable drawer space. No panel to contend with. Top center drawer locks separately for valuables. Bottom drawer when closed locks all other drawers. Roller slides in all large drawers. Highly polished chrome handles. Smooth Red Enamel.

DIMENSIONS

No.		Length	Depth	Height
MB65	Imperial Deluxe Chest	26"	15"	17½"
MB75	Imperial Deluxe Rollaway	26½"	18"	36"
TT35	Tote Tray	18½"	7½"	2"
MB30C	HD Caster (Set of 4)			



WRENCH & SOCKET OPENINGS

For American Standard, U. S. S., and S. A. E. Bolts and Nuts

WRENCH and SOCKET SIZE (Same as width across flats of Bolt Head or Nut)	AMERICAN STANDARD						U. S. STANDARD		S. A. E. STANDARD
	BOLTS			NUTS			National Coarse Bolts and Nuts	Cap Screws	National Fine Bolts and Nuts
	Reg. Series Bolts, Finished Bolts, Hex Head Cap Screws	Heavy Series Bolts, and Finished Bolts	Set Screws	Finished and Finished Thick Series	Regular Series	Heavy Series			
1/4"	.....	.....	1/4"	.....	.....	.....	.....	.....	.....
5/16"	.....	.....	5/16"	.....	.....	.....	.....	.....	.....
3/8"	1/4"	.....	3/8"	.....	.....	.....	.....	.....	.....
7/16"	1/4"	.....	7/16"	1/4"	1/4"	.....	.....	1/4"	1/4"
1/2"	5/16"	.....	1/2"	5/16"	.....	1/4"	1/4"	5/16"	5/16"
9/16"	3/8"	.....	9/16"	3/8"	5/16"	5/16"	.....	3/8"	3/8"
5/8"	7/16"	.....	5/8"	.....	3/8"	.....	.....	7/16"	7/16"
11/16"	.....	.....	.....	7/16"	.....	3/8"	3/8"	.....	.....
3/4"	1/2"	.....	3/4"	1/2"	7/16"	7/16"	.....	1/2"	1/2"
29/32"	.....	.....	.....	.....	.....	.....	7/16"	.....	.....
13/16"	9/16"	.....	.....	.....	1/2"	.....	.....	9/16"	.....
7/8"	.....	1/2"	7/8"	9/16"	9/16"	1/2"	1/2"	5/8"	9/16"
15/16"	5/8"	.....	.....	5/8"	.....	9/16"	.....	.....	5/8"
31/32"	.....	.....	.....	.....	.....	.....	9/16"	.....	.....
1"	.....	.....	1"	.....	5/8"	.....	.....	3/4"	.....
1 1/16"	.....	5/8"	.....	.....	.....	5/8"	5/8"	.....	3/4"
1 1/8"	3/4"	.....	1 1/8"	3/4"	3/4"	.....	.....	7/8"	.....
1 1/4"	.....	3/4"	1 1/4"	.....	.....	3/4"	3/4"	1"	7/8"
1 5/16"	7/8"	.....	.....	7/8"	7/8"	.....	.....	.....	.....
1 3/8"	.....	.....	1 3/8"	.....	.....	.....	.....	1 1/8"	.....
1 7/16"	.....	7/8"	.....	.....	.....	7/8"	7/8"	.....	1"
1 1/2"	1"	.....	1 1/2"	1"	1"	.....	.....	1 1/4"	.....
1 5/8"	.....	1"	.....	.....	.....	1"	1"	.....	1 1/8"
1 11/16"	1 1/8"	.....	.....	1 1/8"	1 1/8"	.....	.....	.....	.....
1 13/16"	.....	1 1/8"	.....	.....	.....	1 1/8"	1 1/8"	.....	1 1/4"
1 7/8"	1 1/4"	.....	.....	1 1/4"	1 1/4"	.....	.....	.....	.....
2"	.....	1 1/4"	.....	.....	.....	1 1/4"	1 1/4"	.....	1 3/8"
2 1/16"	1 3/8"	.....	.....	1 3/8"	1 3/8"	.....	.....	.....	.....
2 3/16"	.....	1 3/8"	.....	.....	.....	1 3/8"	1 3/8"	.....	1 1/2"
2 1/4"	1 1/2"	.....	.....	1 1/2"	1 1/2"	.....	.....	.....	.....
2 3/8"	.....	1 1/2"	.....	.....	.....	1 1/2"	1 1/2"	.....	.....
2 7/16"	1 5/8"	.....	.....	1 5/8"	1 5/8"	.....	.....	.....	.....
2 9/16"	.....	1 5/8"	.....	.....	.....	1 5/8"	1 5/8"	.....	.....
2 5/8"	1 3/4"	.....	.....	1 3/4"	.....	.....	.....	.....	.....
2 3/4"	.....	1 3/4"	.....	.....	.....	1 3/4"	1 3/4"	.....	.....
2 19/16"	1 7/8"	.....	.....	1 7/8"	.....	.....	.....	.....	.....
2 11/8"	.....	1 7/8"	.....	.....	.....	1 7/8"	1 7/8"	.....	.....
3"	2"	.....	.....	2"	.....	.....	.....	.....	.....
3 1/8"	2"	2"	2"

Note: Sockets and Box openings will not fit Square Head Set Screws.

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